The Johns Hopkins University

Conferring of Degrees

At the Close of the
111th Academic Year
May 28, 1987

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ORDER OF PROCESSION

MARSHALS

Paul R. Daniels
Andrew S. Douglas
Bruce R. Eicher
Joseph Hugh Ellis
Nicholas P. Jones
Louis J. Maccini
Ellen E. Notar
David S. Olton
William B. Ray
Riordan Roett
Edyth H. Schoenrich
Henry M. Seidel
Stella Shiber
Harry Sieber

THE GRADUATES

*

MARSHALS

Etan Bourkoff
Jean-Pierre Meyer

THE FACULTIES

*

MARSHALS

Jerome Kruger
George M. Wilson

THE DEANS
MEMBERS OF THE SOCIETY OF SCHOLARS
OFFICERS OF THE UNIVERSITY
THE TRUSTEES

*

CHIEF MARSHAL

A. J. R. Russell-Wood

THE CHAPLAINS
THE PRESENTERS OF THE HONORARY DEGREE CANDIDATES
THE MILTON S. EISENHOWER MEDAL RECIPIENT
THE HONORARY DEGREE CANDIDATES
THE INTERIM PROVOST OF THE UNIVERSITY
THE CHAIRMAN OF THE BOARD OF TRUSTEES
THE PRESIDENT OF THE UNIVERSITY

*

ORDER OF EVENTS

STEVEN MULLER
President of the University, presiding

* * *

PRELUDE

"Come Dearest, the Daylight is Gone"
BYINLEY RICHARDS

"Slumber Polka"
Anonymous

"Waltz"
Anonymous

"Luto Quickstep"
Anonymous

"Colonel Kirkland's March"
Anonymous

"Cheer Boys, Cheer"
HENRY RUSSELL

"Lulu is Gone"
STEPHEN FOSTER

*

PROCESSIONAL

The audience is requested to stand as the Academic Procession moves into the area and to remain standing after the Invocation.

La Mourisque
Pavane Battaille
TIELMAN SUSATO
?—1561

*

Festive marches from Belshazzar, Ezio, Judas Maccabaeus, Rinaldo and Saint Cecilia's Day
GEORG FRIEDRICH HANDEL
(1685-1759)

*

THE PRESIDENT'S PROCESSION

Fanfare
WALTER PISTON
(1894-1976)

Marches from Floridante and Scipione
GEORG FRIEDRICH HANDEL
(1685-1759)

*

INVOCATION

CLYDE R. SHALLENBERGER
Director
The Chaplaincy Service
The Johns Hopkins Hospital

*

THE NATIONAL ANTHEM

*

GREETINGS

GEORGE G. RADCLIFFE
Chairman of the Board of Trustees

*

PRESENTATION OF NEW MEMBERS OF THE SOCIETY OF SCHOLARS

LILIA ALBERGHINA
BOBBY RAY ALFORD
JOHN D. AXE
JOHN BONGAARTS
DENTON A. COOLEY
R. GORDON DOUGLAS, JR.
THOMAS F. FERRIS
NEAL NATHANSON
PIETER A. C. RAATS
THOMAS A. STAMEY
KATHARINE BOUCOT STURGIS
EDVARDAS VARNAUSKAS
KARLMAN WASSERMAN
SAMUEL ALONZO WELLS, JR.

SCHOLARS PRESENTED BY M. GORDON WOLMAN
Interim Provost of the University

*

THE FESTIVAL BRASS

ELLERY B. WOODWORTH, conductor

Fanfare from Festmusik der Stadt Wein
RICHARD STRAUSS
(1864-1949)

*

PRESENTATION OF THE MILTON S. EISENHOWER MEDAL

ROBERT H. LEVI

*

CONFERRING OF HONORARY DEGREES

GIAN CARLO MENOTTI
JENNIFER JONES SIMON
HAROLD M. WILLIAMS
VARTAN GREGORIAN

*

ADDRESS

VARTAN GREGORIAN
President, The New York Public Library

*

CONFERRING OF DEGREES ON CANDIDATES

BACHELORS OF ARTS

Presented by

GEORGE W. FISHER

Dean, School of Arts and Sciences

* * *

BACHELORS OF SCIENCE IN BIOMEDICAL ENGINEERING
BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING
BACHELORS OF SCIENCE IN CIVIL ENGINEERING
BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING
BACHELORS OF SCIENCE IN ENGINEERING MECHANICS
BACHELORS OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING
BACHELORS OF SCIENCE IN MATHEMATICAL SCIENCES
BACHELORS OF ARTS
BACHELORS OF CIVIL ENGINEERING
BACHELORS OF ELECTRICAL ENGINEERING
BACHELORS OF INDUSTRIAL ENGINEERING
BACHELORS OF MECHANICAL ENGINEERING

Presented by

V. DAVID VANDELINDE

Dean, G.W.C. Whiting School of Engineering

* * *

PERFORMER'S CERTIFICATES
BACHELORS OF MUSIC

Presented by

ROBERT O. PIERCE

Director, Peabody Conservatory of Music

* * *

BACHELORS OF SCIENCE

Presented by

CAROL J. GRAY

Dean, School of Nursing

* * *

CONFERRING OF DEGREES ON CANDIDATES
continued

ASSOCIATES OF ARTS
ASSOCIATES OF SCIENCE
BACHELORS OF SCIENCE

Presented by
STANLEY C. GABOR
Dean, School of Continuing Studies

* * *

MASTERS OF SCIENCE
MASTERS OF LIBERAL ARTS
MASTERS OF ADMINISTRATIVE SCIENCE
CERTIFICATES OF ADVANCED STUDY

Presented by
STANLEY C. GABOR
Dean, School of Continuing Studies

* * *

MASTERS OF MUSIC
ARTIST DIPLOMAS

Presented by
ROBERT O. PIERCE
Directory, Peabody Conservatory of Music

* * *

MASTERS OF SCIENCE
MASTERS OF HEALTH SCIENCE
MASTERS OF PUBLIC HEALTH

Presented by
ANDREW A. SORENSEN
Associate Dean for Academic Affairs,
School of Hygiene and Public Health

* * *

CONFERRING OF DEGREES ON CANDIDATES
continued

MASTERS OF INTERNATIONAL PUBLIC POLICY
MASTERS OF ARTS IN INTERNATIONAL AFFAIRS
MASTERS OF ARTS

Presented by
GEORGE R. PACKARD
Dean, School of Advanced International Studies

* * *

MASTERS OF SCIENCE IN CLINICAL ENGINEERING
MASTERS OF ARTS

Presented by
RICHARD S. ROSS
Dean, School of Medicine

* * *

MASTERS OF CHEMICAL ENGINEERING
MASTERS OF CIVIL ENGINEERING
MASTERS OF MATERIALS SCIENCE
MASTERS OF SCIENCE
MASTERS OF SCIENCE IN ENGINEERING
MASTERS OF ARTS

Presented by
V. DAVID VANDELINDE
Dean, G.W.C. Whiting School of Engineering

* * *

MASTERS OF ARTS

Presented by
GEORGE W. FISHER
Dean, School of Arts and Sciences

* * *

DOCTORS OF EDUCATION

Presented by
STANLEY C. GABOR
Dean, School of Continuing Studies

* * *

DOCTORS OF MUSICAL ARTS

Presented by
ROBERT O. PIERCE
Director, Peabody Conservatory of Music

* * *

DOCTORS OF SCIENCE
DOCTORS OF PUBLIC HEALTH
DOCTORS OF PHILOSOPHY

Presented by
ANDREW A. SORENSEN
Associate Dean for Academic Affairs,
School of Hygiene and Public Health

* * *

DOCTORS OF PHILOSOPHY

Presented by
GEORGE R. PACKARD
Dean, School of Advanced International Studies

* * *

DOCTORS OF MEDICINE
DOCTORS OF PHILOSOPHY

Presented by
RICHARD S. ROSS
Dean, School of Medicine

* * *

DOCTORS OF PHILOSOPHY

Presented by
V. DAVID VANDELINDE
Dean, G.W.C. Whiting School of Engineering

* * *

CONFERRING OF DEGREES ON CANDIDATES
continued

DOCTORS OF PHILOSOPHY

Presented by

GEORGE W. FISHER

Dean, School of Arts and Sciences

* * *

STATEMENT TO THE GRADUATES

STEVEN MULLER

President of the University

*

BENEDICTION

GRETCHEN VAN UTT

Chaplain

The Johns Hopkins University

*

RECESSIONAL

March from the 2nd Military Suite

GUSTAV HOLST

(1874-1934)

March from Le Nozze di Figaro

WOLFGANG AMADEUS MOZART

(1756-1791)

The audience is requested to remain standing after the Benediction until the principals, officials, members of the faculties, and the graduates have left the area.

THE JOHNS HOPKINS SOCIETY OF SCHOLARS

The Johns Hopkins Society of Scholars was created on the recommendation of former President Milton S. Eisenhower and approved by the University Board of Trustees on May 1, 1967. The Society—the first of its kind in the nation—inducts former postdoctoral fellows at Johns Hopkins who have gained marked distinction in their fields of physical, biological, medical, social, or engineering sciences, or the humanities, and for whom at least five years have elapsed since their postdoctoral work. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the Scholars from the candidates nominated by the academic divisions having programs for postdoctoral fellows. Each division has the privilege of nominating up to three candidates for each election year. The Scholars are invested during the Commencement ceremony, the Commemoration Day ceremony, or on some similar occasion. At that time, they are presented with a certificate and a medallion with a black and gold ribbon. The Scholars wear the medallion around the neck and they also wear academic costumes.

Today we honor 13 new members who have been elected this year and one member who was elected last year to the Johns Hopkins Society of Scholars.

Dr. Lilia Alberghina is professor of comparative biochemistry at the University of Milan, Italy. She was a postdoctoral fellow in the Department of Biology at the McCollum Pratt Institute from 1964 to 1966. A specialist in plant physiology, Dr. Alberghina's research on ribosomal growth and the synthesis of RNA has clarified the mechanisms of cell regulation in microbial and mammalian systems. Currently, she is engaged in a program to explore the uses of biotechnology in Italian industry. Dr. Alberghina is the recipient of the 1986 Antonio Feltrinelli Award for Biology from the National Academy of Lincei.

Dr. Bobby Ray Alford is professor and chairman of otorhinolaryngology and communicative sciences, and vice president and dean of academic and clinical affairs at Baylor College of Medicine. He was a postdoctoral fellow in the Department of Neurophysiology at The Johns Hopkins Hospital from 1961 to 1962. Dr. Alford is an authority on the physiology of hearing and balance in animals and man. He has been honored for his research and leadership abilities by the American Medical Association, the American Academy of Ophthalmology and Otolaryngology, and the Michael E. DeBakey International Society.

Dr. John D. Axe is principal physicist at Brookhaven National Laboratory. He was a postdoctoral fellow in the Department of Physics at the School of Arts and Sciences from 1961 to 1962. Dr. Axe's research contributions in spectroscopy have advanced atomic and crystal field optical spectroscopy, electronic transition probabilities, laser spectroscopy, and structured phase transitions by neutron scattering. Dr. Axe is a fellow of the American Physical Society, the recipient of the Bertram Eugene Warren Diffraction Physics Award, and a member of several committees concerned with the national research program in condensed matter physics.

Dr. John Bongaarts is the Senior Associate of the Center for Policy Studies at The Population Council in New York City. He was a postdoctoral fellow in the Department of Population Dynamics at the School of Hygiene and Public Health from 1972 to 1973. An internationally recognized scholar of mathematical demography and demographic methodology, Dr. Bongaarts' quantifying model on the proximate determinants of fertility has had a major influence in identifying and resolving issues in fertility policy. In a recent publication, he has suggested an alternative to the one-child family in China, a proposal which is stimulating an examination of alternative paths to population stabilization which will influence the lives of hundreds of millions of people.

Dr. Denton A. Cooley is surgeon-in-chief at the Texas Heart Institute in Houston. He was a postdoctoral fellow in the Department of Surgery at the School of Medicine from 1944 to 1950. During his service as surgical intern and resident in surgery at Johns Hopkins, Dr. Cooley worked under the noted surgeon, Dr. Alfred Blalock, and became part of the small group of skilled practitioners who led the development of cardiac surgery in the United States and internationally. Among his later achievements was the development of the Texas Heart Institute, known around the world as one of the leading facilities of its kind. He has received the nation's highest civilian award, the Presidential Medal of Freedom; the Theodore Roosevelt Award; and the Rene Leriche Prize. He holds the Distinguished Alumnus Award of The Johns Hopkins University, which he continues to serve as a member of the Board of Trustees. Dr. Cooley was elected to the Society of Scholars in 1986 but was unable to attend the induction ceremony. He will receive his certificate and medallion with this year's inductees.

Dr. R. Gordon Douglas, Jr. is professor and chairman of the Department of Medicine at Cornell University Medical College. He was a postdoctoral fellow in the Department of Internal Medicine at the School of Medicine from 1961 to 1962. Dr. Douglas is recognized as an international authority on viral infections, especially those of respiratory tract viruses. His research has included the natural history of infection, mechanism of spread, immune response and vaccine efficacy, and chemotherapy on a wide range of viruses including herpes and rhinovirus.

Dr. Thomas F. Ferris is professor and chairman of the Department of Medicine at the University of Minnesota Hospital. He was a postdoctoral fellow in the Department of Medicine at the School of Medicine from 1956 to 1957. Dr. Ferris conducted the definitive studies of the role of angiotensin and prostaglandins in the regulation of uterine blood flow in pregnancy. Considered an authority on diseases of the kidney and renal physiology, Dr. Ferris is also widely recognized as a teacher, serving as visiting professor at more than 30 institutions during the past decade.

Dr. Neal Nathanson is professor and chairman of the Department of Microbiology at the University of Pennsylvania School of Medicine. He was a postdoctoral fellow in the Department of Anatomy at the School of Medicine from 1957 to 1959. An epidemiologist, virologist and immunologist, Dr. Nathanson served for 23 years on the faculty of the School of Hygiene and Public Health. In addition to major contributions to the epidemiology and virology of poliomyelitis, the slow viruses, and encephalitis, he has examined important theoretical considerations for the eradication of viruses from human populations.

Dr. Pieter A. C. Raats is a soil physicist at the Institute for Soil Fertility in The Netherlands. He was a postdoctoral fellow in the Department of Mechanics at the G.W.C. Whiting School of Engineering from 1970 to 1971. An expert on the mechanics of soils, Dr. Raats has created mathematical models describing the transport of mass and momentum for particular kinds and circumstances of soils. He has served on a number of Dutch national committees concerned with soil science.

Dr. Thomas A. Stamey is professor and chairman of the Department of Urology at the Stanford University School of Medicine. He was a postdoctoral fellow in the Department of Urology at the School of Medicine from 1952 to 1956. Dr. Stamey is internationally recognized for his understanding of renovascular hypertension and recurrent urinary tract infections. His work has led to effective treatment of such infections, particularly in women. Dr. Stamey is now directing a major study of the pathology of prostatic cancer and the role of oncogenes in the development and progression of the disease. He served on the faculty of the School of Medicine from 1958 to 1961.

Dr. Katharine Boucot Sturgis (1903-1987) was Professor Emeritus of Preventive Medicine at the Medical College of Pennsylvania. She received a Masters of Public Health at the School of Hygiene and Public Health from 1952 to 1954. In addition to extensive work on diseases of the chest from tuberculosis to lung cancer, Dr. Sturgis was responsible for the development of the Department of Preventive Medicine at Women's Medical College of Pennsylvania. A nationally recognized leader in preventive medicine, she served as the first woman president or vice president of more than a half-dozen professional organizations.

Dr. Edvardas Varnauskas is head of the Division of Cardiology at The Sahlgrenska Hospital and professor of cardiology at the University of Göteborg, Göteborg, Sweden. He was a postdoctoral fellow in the Department of Environmental Medicine at the School of Hygiene and Public Health from 1955 to 1957. A cardiologist who has made important contributions to our understanding of pulmonary blood volume, Dr. Varnauskas has provided new insights into the relationships between pulmonary blood flow and diffusing capacity at rest and during exercise. As a World Health Organization consultant, he has played an active role in guiding cardiac care throughout the world.

Dr. Karlman Wasserman is chief of respiratory physiology and medicine and professor of medicine at the University of California at Los Angeles School of Medicine. He was a postdoctoral fellow in the Department of Medicine at the School of Medicine from 1958 to 1959. Dr. Wasserman is a leader in the study of respiratory control during exercise and its role in pulmonary rehabilitation. He has been particularly active in the study of respiratory physiology and pulmonary medicine.

Dr. Samuel Alonzo Wells, Jr. is professor and chairman of the Department of Surgery at Washington University School of Medicine. He was a postdoctoral fellow in the Department of Internal Medicine at the School of Medicine from 1961 to 1963. One of the outstanding leaders in academic surgery today, Dr. Wells is especially known for his laboratory and clinical investigations in surgical endocrinology. He has received the Resident Essay Award from the James Ewing Society, a Special Fellowship from the National Cancer Institute, and the Distinguished Alumnus Award from Duke University Medical Center.

Citation Read by

M. GORDON WOLMAN

In Presenting

ROBERT H. LEVI

for the Milton S. Eisenhower Medal for Distinguished Service

Business leader, philanthropist, and volunteer, your clarity of vision and vigorous approach to social needs have benefited not only The Johns Hopkins Institutions but the greater Baltimore/Washington community as well.

The intelligence, generosity, and resourcefulness that have made you an exemplary volunteer are evident in every enterprise you undertake. As a teenager in the early 1930s, you responded to the difficulties of the Depression by becoming the head of your family's business while simultaneously mastering an accelerated course of study at Baltimore's premier public high school, City College. Your efforts won you a scholarship to Johns Hopkins.

After earning your bachelor's degree in economics from Hopkins in 1936—and plaudits for your skills in lacrosse—you continued your career in business, rising rapidly in the Hecht Company and making it a leader in the postwar move to the suburbs. As president and chairman of the board, you consolidated the Hecht business and led the merger with the May Department Stores Company.

You served as vice president of the May Company until 1974, when at the age of 58, you embarked on a completely new career as head of the trust department at the Mercantile-Safe Deposit and Trust Company, where you became vice chairman of the board. In your retirement, you now serve as chairman of the executive committee.

Your efforts to revitalize two urban areas—Baltimore and the District of Columbia—demonstrated the concern for planning and vigorous approach to problems that have also served Hopkins so well. As a member of the Board of Trustees of The Johns Hopkins Hospital since 1958 and of the University Board of Trustees since 1973, you have put your considerable talents to work for their benefit.

At the Hospital, you have served as chairman of the Compensation Committee and as a member of numerous committees, and were a key figure in the rebuilding of the Hospital physical plant in the 1970s. At the University, you have served as vice chairman of the board, vice chairman of the Johns Hopkins Fund, chairman of the Investments Committee, and as a member of many other committees. Beyond your committee involvement, you have served as a valued confidant and revered counselor to Johns Hopkins presidents.

Finally, as a fundraiser and donor, you chaired in 1971 the first joint trustees meeting that launched the Hopkins Hundreds Campaign. In 1981, you accepted the chairmanship of the newly formed Joint Trustee Development Committee, whose work laid the foundation for The Campaign for Johns Hopkins.

The generosity that you and Ryda have shown to Johns Hopkins over the years includes one of the largest unrestricted gifts Hopkins has ever received. In recognition of your longtime support, the University proudly named a wing of the biology complex in honor of you and Ryda.

Robert H. Levi, in recognition of the vision, wise advice, and boldness of action that have spelled the success of many major ventures, and for your devoted service and magnificent generosity to your alma mater, The Johns Hopkins University is proud to present you with the Milton S. Eisenhower Medal for Distinguished Service.

Citation Read by

PHYLLIS BRYN-JULSON

in Presenting

GIAN CARLO MENOTTI

for the Degree of Doctor of Humane Letters

May 28, 1987

Composer, writer, and administrator, you have had a lasting impact on American music. Through your own music and your efforts to present the old and new works of others, you have reawakened audiences to the richness of our musical tradition.

A composer of words as well as the melodies of your operas, you have reacquainted us with the beauty and expressive power of the human voice. Your half-century of music-making began at the age of 10 in your native Italy, when you composed your first opera, "The Death of Pierrot." After studies at the Milan Conservatory, you arrived in the United States to continue your studies at the Curtis Institute in Philadelphia in 1927.

Scarcely ten years had passed before your music was being heard on the American stage. The English translation of your comic opera "Amelia Goes to the Ball" in 1937 marked what many regard as the beginning of American opera. The long-running success of "The Medium," first produced in 1946, established you as the foremost composer-librettist of modern opera. "The Telephone," "The Consul," "Amahl and the Night Visitors," and "The Saint of Bleecker Street" followed next, along with two Pulitzer Prizes, a Drama Critics Circle Award, and a Music Critics Circle Award.

Your creative gifts are equalled by your administrative abilities. In 1958, you founded and became director of what has become one of the major events in the musical world, the Festival of Two Worlds in Spoleto, Italy. In 1977, you founded Spoleto's American counterpart in Charleston, South Carolina and, in 1986, this event became the Festival of Three Worlds when you established Spoleto Melbourne in Australia. Furthermore, in 1988, you will reach a truly international audience when your music—commissioned by the South Korean government is played at the Summer Olympics in Seoul.

Gian Carlo Menotti, in gratitude for the gift of your musical genius and your lifelong contributions to the performance and appreciation of music, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

GUY M. MC KHANN

in Presenting

JENNIFER JONES SIMON

for the Degree of Doctor of Humane Letters

May 28, 1987

Actress, mental health activist, and patron of the arts, your remarkable talents have enriched American cultural life and have focused needed attention on important issues in mental health and the neurosciences.

Many of us already know you for your distinctive contributions to the world of film, having dominated the era of the 1940s and 1950s with leading roles in over twenty-five films. You were awarded an Oscar for best actress by the Academy of Motion Picture Arts and Sciences in 1943 for your role in "Song of Bernadette," and you were nominated for best actress and best supporting actress on four other occasions. You have also been honored for your service at the front during the Korean War.

Your subsequent work in the field of health care and the visual arts is equally impressive. A supporter of research on neurological disorders, you have served as a member of the Johns Hopkins Psychiatry and Neuroscience Development Council since 1985, as well as on national neurological advisory councils at the National Institutes of Health and the National Institute of Mental Health.

As chairman of the Jennifer Jones Simon Foundation you have supported a varied and international program of mental health workshops and symposia that have brought public attention to such topics as suicide, old age and depression, neurobiology, and issues in mental health policy.

The world of the visual arts has also benefited greatly from your untiring efforts. As executive vice president of the Norton Simon Art Foundation, as chairman of the board of the Norton Simon Art Museum, and as a trustee of the J. Paul Getty Trust, you have enhanced the quality of life in your community and contributed to the artistic vitality of our nation.

Jennifer Jones Simon, in recognition of your accomplishments as an artist and for your devoted service to others, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

HERBERT L. KESSLER

in Presenting

HAROLD MARVIN WILLIAMS

for the Degree of Doctor of Humane Letters

May 28, 1987

Administrator, government official, business leader, and educator, your contributions to the nation and to your community cover a wide terrain, including the fields of industry, education, and the arts.

You received a baccalaureate from the University of California at Los Angeles in 1946 and a law degree from Harvard University in 1949 and then embarked upon a successful career in industry. In 1964, at the age of 36, you attained the position of president of Hunt-Wesson Foods, Inc. and became chairman of the board of Norton Simon, Inc. in 1969. Your reputation as a corporate leader brought you back to your undergraduate alma mater in 1970, when you served as professor of management and dean of the Graduate School of Management until 1977. Under your leadership, the UCLA School of Management became one of the nation's leading public graduate business schools.

You were named chairman of the Securities and Exchange Commission by President Jimmy Carter in 1977 and your service there was marked by your work to improve the accountability of the business community to society.

Your talent for management was tapped by the art world in 1981, when you were named president and chief executive officer of the J. Paul Getty Trust. Today, you administer the largest trust in the nation devoted to furthering the visual arts, including the internationally-renowned J. Paul Getty Museum.

Harold Marvin Williams, for your dedication and service to your nation and to your community, and in admiration of your talents as a leader, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

RICHARD A. MACKSEY

in Presenting

VARTAN GREGORIAN

for the Degree of Doctor of Humane Letters

May 28, 1987

Administrator, historian, and educator, you are widely admired for your erudition and enthusiastic determination to preserve knowledge and to make it accessible to all. Your openness, unfailing energy, and guardian's sense of responsibility are legendary. They also characterize the true student and scholar.

Perhaps your profound sense of history was shaped by your birth and early life in a land and community themselves steeped in history: Tabriz, Iran. Perhaps your work as a page in the Armenian library there was an early apprenticeship for the position you hold today as the president of the New York Public Library.

It is a long way from Tabriz to Fifth Avenue and the route you took stopped first at the College Armenien in Beirut, Lebanon. It then took you across two continents to Stanford University, where you received a baccalaureate in 1958 and a doctoral degree in 1964, both in history and the humanities.

Your passion for teaching led to faculty positions in Armenian, Middle Eastern, and European intellectual history at San Francisco State College, at the University of Texas at Austin, and at the University of Pennsylvania, where you also served as the first dean of the Faculty of Arts and Sciences and then as the provost. Always conscious of the intellectual dynamism that can result when different branches of knowledge meet, you were distinguished there for fostering new interdisciplinary collaborations.

This breadth of perspective in the academic arena was a preparation for your current stewardship of the New York Public Library, a world of 29 million items in 3,000 languages and dialects. The origins of this great institution and those of Johns Hopkins are historically bound by the vision of your predecessor, another Renaissance man, John Shaw Billings, who was adviser to Gilman at our own University's inception and—in every sense of the word—architect of its School of Medicine and The Johns Hopkins Hospital. Following his labors here and in the Surgeon General's office, he assumed as his final challenge the direction of the newly founded library that you now head.

In this office, you have faced challenges that even he could not have foreseen. Since 1981, you have rescued one of the world's great repositories of knowledge from economic crisis and civic neglect. With the help of Patience and Fortitude, those exemplary lions at your door, you have achieved a dynamic revival of its fortunes. Now everyone knows there is a third lion *inside* the New York Public Library, one whose mission has inspired an unprecedented show of support throughout the city and the nation. Johns Hopkins is fortunate to have you as a member of its Library Advisory Council.

Vartan Gregorian, in admiration of your impassioned leadership in the preservation and spread of knowledge, and in celebration of your mission, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

THE UNIVERSITY MACE

The University Mace carried by the Chief Marshal, Dr. A. J. R. Russell-Wood, was first used at the 1954 Commemoration Day Exercises. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent man's cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

THE PRESIDENTIAL INSIGNIA

University President Steven Muller is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the ten Johns Hopkins University Presidents are engraved on the faces of ten of the links. On the reverse are engraved the names and dates of office of each President. Ten blank links for future use are included. The University Seal completes the design.

ACADEMIC DRESS

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the degree was earned:

Dark blue — Philosophy
Light blue — Education
Orange — Engineering
Gold-yellow — Science
Green — Medicine
Salmon pink — Public Health
Pink — Music
Purple — Laws
White — Arts and Letters

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron — Johns Hopkins
Light blue, white chevron — Columbia
Dark blue — Yale
Blue with white chevron — Duke
Dark blue, two orange chevrons — Illinois
Light blue, two white chevrons — North Carolina
Old gold, maroon chevron — Minnesota
Old gold — Iowa
Gold, blue chevron — California
Gold — Virginia
Purple, gold chevron — Northwestern
Carnegie Tartan — Carnegie-Mellon
Purple — New York University
Bright red — Wisconsin
Plum, with scarlet — London
Maroon — Chicago
Crimson — Harvard
Carnelian, two white chevrons — Cornell
Cardinal — Stanford
Red, tri-Chevron in center — Heidelberg
Dandelion yellow — Michigan
Maize, azure blue chevron — Sorbonne
Yellow and white — Rochester

THE UNIVERSITY MOTTO

Veritas vos liberabit.

The truth shall make you free

—St. John 8:32

AWARDS

IN THE SCHOOLS OF ARTS AND SCIENCES, ENGINEERING AND MEDICINE

LOUIS SUDLER PRIZE IN THE ARTS

for excellence in the creative arts

Awarded to SUSAN BERNOFSKY

HONORABLE MENTION: Carol Elizabeth Gerry, for her acting

IN THE SCHOOLS OF ARTS AND SCIENCES AND ENGINEERING

AMERICAN CHEMICAL SOCIETY, MARYLAND SECTION STUDENT AWARD

for outstanding scholastic achievement in chemistry and related disciplines by an undergraduate

Awarded to ZACHARIAS V. MAVROPHILIPOS

AMERICAN INSTITUTE OF CHEMISTS AWARD

for a demonstrated record of leadership, ability, character, scholastic achievement and potential for advancement of the chemical professions

Awarded to CHRISTINE STANFEL

LOUIS AZRAEL FELLOWSHIP IN COMMUNICATIONS

for demonstrated excellence in a field of mass communications

Awarded to TODD JOSEPH GILLMAN

WILLIAM H. BAIN AWARD

for outstanding achievement by an undergraduate in the Writing Seminars

Awarded to STEVEN JOSEPH BRETT
CAROL ELIZABETH GERRY

BIOMEDICAL ENGINEERING AWARD

for outstanding effort in research in Biomedical Engineering

Awarded to MARK DAVID WISEMAN
BERTRAM A. LEWIS, JR.

ALEXANDER BUTLER PRIZE

for the best research paper by a first year graduate student in History

Awarded to JAMES SIDBURY

MARY FARRELL CAMERER AWARD

for outstanding achievement in the junior year by a Writing Seminars major

Awarded to MICHAEL KUPRITZ

EUGENIO AND PATRICIA CASTILLO AWARD

to the best first or second year graduate student in Political Economy

Awarded to DAVID MAJERUS

G. STANLEY HALL PRIZE

for outstanding achievement by an undergraduate in Psychology

Awarded to MICHELLE WILLIAMS

THE MAX HOCHSCHILD FUND

The prize is awarded annually to the undergraduate student in Business and Industrial Management who has shown the greatest promise and proficiency in this field and is awarded to

RENYA MICHAEL REED

THE 3 ARTS CLUB OF HOMELAND AWARD
for outstanding achievement in the Writing Seminars
Awarded to DENISE TANYOL

AT&T INFORMATION SYSTEMS—WILLIAM HUGGINS AWARD
for outstanding service and academic achievement by a senior and junior in Electrical and Computer Engineering
Awarded to ROSS EDWARD CONKLIN, JR.
ANN ELIZABETH FRIESE

ADOLF KATZENELLENBOGEN MEMORIAL PRIZE
for outstanding work in Art History
Awarded to KATHLEEN FRANCES STEIN
WENDY THOMPSON

DONALD E. KERR MEMORIAL PRIZE
to the outstanding undergraduate major in Physics and Astronomy
Awarded to MICHAEL ARTHUR GATZKE

ARTHUR KOUGUELL PRIZE
to the outstanding undergraduate major in History
Awarded to GEORGE A. MARTIN

MARTIN G. LARRABEE AWARD
for meritorious research conducted by senior undergraduates in Biophysics
Awarded to SULAGNA CHAKRABORTY

ERNEST M. MARKS AWARD
in recognition of excellence in instruction in Chemistry
Awarded to MARY GALLO
TERENCE HAMILL

MATHEMATICAL SCIENCES AWARD
for outstanding achievement by an undergraduate
Awarded to GARY LESSING
JACQUELINE ANN MEISTER

MATHEMATICS AWARD
for outstanding achievement by an undergraduate in Mathematics
Awarded to JOHN PETER STACHYRA

PAUL A. McCOY PRIZE
for the most distinguished masters essay in Political Science
Awarded to MICHAEL CARLTON TOLLEY

ROBERT B. POND, SR. ACHIEVEMENT AWARD
to the graduating senior in Materials Science who best exemplifies Professor Pond's commitment to scholarly and humane values
Awarded to KIRSTEN A. GREEN

ROULSTON PRIZE
for outstanding achievement by an undergraduate in German
Awarded to SUSAN BERNOFSKY

SARAH & ADOLPH ROSEMAN ACHIEVEMENT AWARD
in recognition of outstanding accomplishment in Chemistry
Awarded to SUSAN A. WHITE
RICHARD D. MCCULLOUGH

JULIAN C. STANLEY AWARD

for the undergraduate psychology major who most closely approximates Dr. Stanley's personal and professional standard of excellence

Awarded to VINEETA ANDREE LOWELL

ISADORE SOKOLOW MEMORIAL PRIZE

for the best essay on Latin American history written by an undergraduate

Awarded to MICHAEL E. DAVIDOW

ISADORE SOKOLOW MEMORIAL PRIZE

for a graduate student of outstanding promise in Latin American history

Awarded to LYDIA MAGALHAES GARNER

JULIUS TURNER PRIZE

for the most distinguished senior thesis in Political Science

Awarded to SUZANNE E. SHANAHAN

JOHN BOSWELL WHITEHEAD AWARD

for outstanding achievements by an undergraduate in Electrical and Computer Engineering

Awarded to STANLEY TIMOTHY LAU

LOY WILKINSON AWARD

for a demonstrated record of academic excellence, leadership, and service in Chemical Engineering

Awarded to AYESA NAZNEEN MIAN
SUSAN G. GOROZDOS

IN THE PEABODY CONSERVATORY OF MUSIC

THE HAROLD RANDOLPH PRIZE

Awarded to CECILIA CHINSOON CHO

THE MARYLAND STATE TEACHERS ASSOCIATION PRIZE

Awarded to GARY WADE COLEY

THE EDITH AND IRENE ASHWORTH PRIZE

Awarded to PETER HOLLERBACH
SARAH ELIZABETH PAUL

THE BALTIMORE MUSIC CLUB AWARD IN ACCOMPANYING

Awarded to JOHN DAVID SHILLINGBERG, JR.

THE PAULINE FAVIN MEMORIAL AWARD IN PIANO

Awarded to JOHN E. CONTE

OTTO ORTMANN AWARD IN COMPOSITION

Awarded to BRYAN WILLIAM ZOELCH

THE JOSEF KASPER AWARD IN VIOLIN

Awarded to MARTA SZLUBOWSKA

THE ZAIDEE T. THOMAS INSTRUMENTALIST AWARD

Awarded to MARIA LOUISE CHARLOTTE VOM LEHN

THE IRVING LOWENS MEMORIAL PRIZE IN MUSIC CRITICISM

Awarded to TIMOTHY JOHN MANGAN
MARK DOZIER MOBLEY

THE CLARA ASCHERFELD AWARD IN ACCOMPANYING

Awarded to CHRISTINA ANN DAHL

THE ROSE AND LOU BECKER MEMORIAL PRIZE IN VIOLIN

Awarded to JAMES EDWARD GOMEZ
LIN CHIA-CHI

THE ISRAEL DORMAN MEMORIAL AWARD IN STRINGS

Awarded to DAVID ERIC BJELLA

THE BRITTON JOHNSON MEMORIAL PRIZE IN FLUTE

Awarded to DAVID JAMES LAVORGNA

IN THE SCHOOL OF NURSING

ROBERT G. MERRICK AWARD

to a student demonstrating outstanding leadership in the field of nursing

Awarded to CHRISTINE SUSAN WRIGHT

RESEARCH AWARD

to a student demonstrating intellectual curiosity and creativity in nursing research

Awarded to PAMELA HOFMAN BARRETTO

MARY AND GRAINGER MARBURG AWARD

in recognition of a student who consistently exhibits outstanding clinical nursing expertise

Awarded to COLLEEN MARIE FREI

ACADEMIC EXCELLENCE AWARD

to a student whose academic performance has been judged to be outstanding

Awarded to KAREN WEILAND RODGERS

ELEANOR WADE CUSTER AWARD

to a student who most successfully combines commitment to the nursing profession with sensitivity to one's fellow man

Awarded to REBECCA MAXWELL HANSON

THE CHURCH HOME AND HOSPITAL NURSING ALUMNAE AWARD

recognizes a student who best exemplifies a humanistic approach to nursing while integrating the art, science and the spirit of nursing

Awarded to JANET SUE SCHNEIDER

THE JOHNS HOPKINS NURSES' ALUMNI ASSOCIATION AWARD

recognizes a student whose leadership ability is combined with clinical competence and an inquiring mind

Awarded to MARY TERESA FLYNN

SINAI NURSES' ALUMNAE ASSOCIATION OF SINAI HOSPITAL, INC.

recognizes a student who exhibits enthusiasm, compassion and a positive approach to problem solving in nursing

Awarded to MARGARET JEAN PORTER

IN THE SCHOOL OF CONTINUING STUDIES

DELTA SIGMA PI SCHOLARSHIP KEY

in the Division of Administration and Business for the highest average in the undergraduate programs

Awarded to Valerie Anne Krauss

EDWARD J. STEGMAN, C.P.A., MEMORIAL AWARD

in the Division of Administration and Business for excellence in the study of Administrative Science at the graduate level

Awarded to Elizabeth Shepherdson Ellis
Sandra Dianne Gove
Thomas Gerald Grzymski
Susan E. House
Mark Jay Jacobson
Carol A. Jordan
Anna Coatsworth Larkin
Elizabeth Kling Mayotte
Robert Newman Morgan
Brenda Gael Reckley
Beryl Joel Rosenstein
Stuart Fairfax Sands
Katherine Miller Sellers
Gordon RG Werkema

WALL STREET JOURNAL STUDENT ACHIEVEMENT AWARD

in the Division of Administration and Business for outstanding scholarship in the undergraduate programs and exceptional promise of future success

Awarded to Ronnie Eugene Hege

IN THE SCHOOL OF MEDICINE

HENRY STRONG DENISON SCHOLARSHIP

for excellence in biomedical research

Awarded to William George Nelson, V
Gilbert Gomer Whitmer, Jr.

SANDOZ AWARD

for excellence in the field of Pharmacology

Awarded to William George Nelson, V

LAUREL AND CLARENCE H. KOENNECKE AWARD

for most promise in the surgical field of gynecology

Awarded to Valerie Sue Ratts

THE FRANKLIN PAINE MALL SCHOLARSHIP IN ANATOMY

for recognition of outstanding accomplishment

Awarded to James Hubert Carson
Carol Jean Martin
Benjamin Karl Yokel

THE PAUL EHRLICH GRADUATE STUDENT AWARD

Awarded to James D. Bangs

DAVID ISRAEL MACHT MEMORIAL PRIZE

Established to honor Dr. David Israel Macht, a member of the faculty of the Departments of Pharmacology and Medicine in the early part of this century and a pioneer investigator in the field of opiate alkaloids.

Awarded to Lance Joseph Ferrin
David Tuckchow Yue

HAROLD LAMPORT BIOMEDICAL RESEARCH SCHOLAR

for meritorious research completed during medical training

Awarded to Robert Logan Avery

CIBA AWARD FOR OUTSTANDING COMMUNITY SERVICE

Awarded to Roger Dean Smalligan

SCHOOL OF MEDICINE STUDENT RESEARCH AWARD

for outstanding research accomplishment

Awarded to DAVID ALEXANDER POTTER, 1980-81

IN THE SCHOOL OF HYGIENE AND PUBLIC HEALTH

ALUMNI ASSOCIATION SCHOLARSHIP AWARD

to a student of outstanding promise

Awarded in 1983 to DIANE ROWLAND
Awarded in 1985 to LINDA EMILIE BERLIN

RUTH B. FREEMAN AWARD

to a graduating doctoral nurse to recognize academic performance and an outstanding thesis

Awarded to MARTHA NORTON HILL

JOHN C. HUME AWARD

to a doctoral graduate for significance of research in the Department of Health Policy and Management

Awarded to MARK ROBERT FARFEL

JOHN C. HUME AWARD

to a Master of Public Health graduate for academic excellence and professional promise

Awarded to MICHAEL JOHN KLAG

CORNELIUS W. KRUSÈ AWARD

for the outstanding dissertation in Environmental Health

Awarded to ALEXANDER EDWARD BAKALIAN

MARY B. MEYER MEMORIAL AWARD

to a student in the Department of Epidemiology for academic excellence

Awarded in 1983 to PENELOPE MARY KEYL

STUDENT ASSEMBLY RECOGNITION AWARDS

bestowed by the Student Body to acknowledge the special contributions of nonfaculty individuals

Student: MARY CROUGHAN
Staff: MICHAEL ANDERSON
RICHARD NELSON

IN THE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

WILLIAM C. FOSTER AWARD

to a second year student for sound scholarship and a record of leadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty and ability admired in Mr. Foster

Awarded to MITCHELL P. BENEDICT
LAWRENCE T. DI RITA
ELIZABETH C. JOHNSON

CHRISTIAN A. HERTER FELLOWSHIP

to the member of the second year class with the most outstanding record during the first year

Awarded to JOOST EVERAERT

SAIS STUDENT POLICY FORUM PRIZE

to that student who by written and oral argument has made the most cogent presentation on an international policy issue

Awarded to CHRISTOPHER A. PADILLA

HONOR SOCIETIES

PHI BETA KAPPA

From the Junior Class in the School of Arts and Sciences

Shireen Rusby Howard
Ian Elliott Krop
Marcel Joseph Lachenmann
Dawn Jeanette Ledbetter
Linda Lin Liu
Hemai Bharati Parthasarathy
Matthew Adrian Spear

From the Senior Class in the School of Arts and Sciences
Elected in 1985-86

Susan Bernofsky
Andrea Marie Bruce
Michael Arthur Gatzke
Amit Girish Gupta
Gregory Liu Hung
Alfonso Nicholas Iasiello
Crystal Arenal Mullen
Sanjiv Ramesh Patel

Elected in 1986-87

Andrew Mark Barnstein
Kimberley Lisa Bauman
Ellen Sue Berkowitz
Christopher Robert Briggs
Francis John Caprio
Joseph Cheng-Thai Chen
Melvin Coursey
Pamela McAllister Courtright
Michael Eli Davidow
Lisa Carol Dorr
Ralph Hayward France, III
Erich Michael Gaertner
John Sheda Ho
Jeffrey Evan Jacobs
Greg Joel Kaufman
Cecilia King
Paul Michel Kirshbom
Marc Anthony Kouyoumdjian
Nadine Leavitt
Monica Joan Levine
Vineeta Andree Lowell
Samantha MacBride
Zacharias Vasilios Mavrophilipos
Jennifer Kristin Midura
Maria Dee Mitchell
Alan Howard Nadelhaft
Daniel Joseph Nigrin
Manuel Carlos Pardo
Charles Joon Park
Nathan Daniel Rose
Chrysso Barbara Sarkos
Joseph M. Schwartz
Suzanne Elise Shanahan
Christine Marie Stanfel
Claudia Marie Testa
James Ernest Thompson
Michael Peter Walutes

From the School of Medicine

Earl Joseph Hope
Edward A. Wolff, III

From the School of Hygiene and Public Health

Dr. Deborah Brimlow
Dr. Lawrence Moulton

TAU BETA PI

National Engineering Honor Society

From the Junior Class in the G.W.C. Whiting School of Engineering

Jeffrey Anthony Cadeddu
Brandon Willie Chan
Alfonso Nicholas Iasiello
Stephen Mitchell Jameson
Nina Kaden
Wai Man Lam
Edward Dai-Chee Poon
Evan Ralph Reiter
Mark Richards
David John Scheerer
John Scott Steckenrider
Christopher Charles Streinz
Jeffrey Taber
Anne Madeline Troop
Katherine C. Wu
Michael Yang

From the Senior Class in the G.W.C. Whiting School of Engineering

Elected in 1985-86

Michele Julia Andrys
Claire Ann Battistella
Tomasz Michal Beer
Kurt R. Budelmann
Lawrence Noah Eisenman
Robert Charles Gensure
Douglas Gordon Gibson
Susan Gail Gorozdos
Gary Andrew Henry
Khalil Ahmed Jaoumi
Stanley Timothy Lau
Elisabeth M. Louwers
Ayesa Mian
Christian Victor O'Keefe
J. Jeremy Rice
Lucky Daniel Roteliuk
Scott H. Seidman
Anne K. Skaja
Khaled Aly Tawansky
David H. Terry

Elected in 1986-87

Valeria Colesanti
Vincent John Farozic
Steven Gregory Heiss
Sean Houlihan
Deena Karen Kjeldsen
Heinan Landa
Gary Lessing
Tina Ann Maxian
Jacqueline Meister
Ramin Sarrafizadeh
Alan Philip Tuttle, II
Sidney Wen-Hsin Wang

From the Part-Time Engineering Program

Russell Edward Babylon
David Hugh Brown
Robert Newell Bryan
George Russell Dansberger
Lance Martin David
Brian George Keggins
George Allen Olean
Eugene George Ricks

ALPHA OMEGA ALPHA

Honor Medical Society

Lucinda Bateman
Howard Bruce Baum
James Hubert Carson
Steven Chin
Lynda Marie Christiano
Mark William Geraci
Alan Jay Gordon
Earl Joseph Hope
Kathleen Marie Maletic
Carol Jean Martin
Francis Joseph McMahon
Anne Brawner Namnoum
William George Nelson, V
Phyong L. Nguyen
Valerie Sue Ratts
Rebecca Gray Wells
Robert Carroll Whitaker
Edward Andrew Wolff, III
Benjamin Karl Yokel
Carlton Joseph Young

DELTA OMEGA

National Public Health Honor Society

Linda Emilie Berlin
Sarah Bur
Mary Margaret Currier
Susan Royal Davis
Laurette Kathryn Dekat
Amy Dryman
Susheela Marie Engelbrecht
Mark Robert Farfel
Donald Patrick Ford
Ellen Susan Frank
Elizabeth Jane Herman
J. Henry Hershey
Michael S. Jacobs
Penelope Mary Keyl
Robert Gerald LaForge
Patricia Louise McLaine
Lawrence Hale Moulton
Eric Kikuo Noji
Michel Charles Pacque
Sara Jane Pacque-Margolis
Linda Kay Peace
Alton W. Powell, III
Diane Rowland
Khadijah Shamsuddin
Patricia Ann St. Clair
John Michael Stelling
Terry Lynn Duel Thomas
Katherine Amy Treiman
Jill Marie Vollmerhausen
Susan Russell Walters
Karen Warburton

PI KAPPA LAMBDA

National Music Honor Society

Carol Cavey-Dowling
Eric Arthur Conway
Christina Ann Dahl
Barry David Goldsmith
Seung-Un Ha
Elissa Catherine Koehler
Warren David Sprague
Marta Szlubowska
Jill Ellen Thomassen
Maria Louise Charlotte Vom Lehn

HONORS

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with General Honors

Steven Ira Abrams
Yoon Jung Ahn
Michael Ross Balm
Robert Cornel Balogh
Donalda Vostina Barnes
Mark Allen Barnes
Kimberley Lisa Bauman
Ellen Sue Berkowitz
Susan Bernofsky
Gillian Black
Michael Robert Borland
Steven Joseph Brett
Christopher Robert Briggs
Andrea Marie Bruce
Daniel Laurence Buccino
Rizwan Hassan Bukhari
Francis John Caprio
Stefano Luca Cazzaniga
Sulagna Chakraborty
Sherman Morris Chamberlain
Donald Young Ik Chang
Joseph Cheng-Thai Chen
Justin Chang-Kun Choi
Una Choi
Robert Chou
Martin Jason Citardi
Geoffrey Ward Clement
Kevin Mark Cockroft
Melvin Vaughn Coursey, Jr.
Pamela McAllister Courtright
Michael Eli Davidow
Lisa Carol Dorr
Ralph Hayward France, III
Erich Michael Gaertner
Michael Arthur Gatzke
Shaun Michael Gelsinger
Carol Elizabeth Gerry
Joshua Mark Givelber
Julie Pamela Glass
Rajiv Goyal
Rafael O. Gray
Christian William Hansen
John Sheda Ho
Eva Marietta Holland
Jeffrey Horn
Gregory Liu Hung
Cheryl Bernadette Iglesia
Jeffrey Evan Jacobs
Gregory Joel Kaufman
Helen Hyosun Kim
Jung Tack Kim
Cecilia Mary King
Mitchell Farrell Kirschner
Paul Michel Kirshbom
Marc Anthony Kouyoumdjian
Rachelle Marie LaForce
Nadine Nigel Leavitt
Thomas Cramer Lee
Monica Joan Levine
Vineeta Andree Lowell
Samantha MacBride
George Andrew Martin
Zacharias Vasilios Mavrophilipos
Frank John Ménétrez
Jennifer Kristin Midura
Saverio Mirarchi
Maria Dee Mitchell
Alan Howard Nadelhaft
Kay Michele Nelsen
Daniel Joseph Nigrin
Robert John Noorani
Eric Spencer Nussbaum
Manuel Carlos Pardo
Sanjiv Ramesh Patel
Kimberly Karol Patterson
Nathan Daniel Rose
Eric Scott Rovner
Chrysso Barbara Sarkos
Jonathan Stephen Savitz
Joseph Michael Schwartz
Shafqat Shah
Suzanne Elise Shanahan
Susan Kathleen Shiber
Rachel Lynn Shocket
Susan Lee Shone
Jason Louis Solotaroff
John Peter Stachura
Christine Marie Stanfel
David Alan Stern
Denise Tanyol
Claudia Marie Testa
Alexandra Patricia VandeKamp
Winston Canute Vaughan
Michael Peter Walutes
Scott Evan Waxman
Kathryn Zuckerman

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

Graduating with General Honors

Michele Julia Andrys
Claire Ann Battistella
Valeria Monica Colesanti
Robert Charles Gensure
Douglas Gordon Gibson
Susan G. Gorozdos
Steven Gregory Heiss
Sean Peter Houlihan
Khalil Ahmed Jaouni
Stanley Timothy Lau
Elisabeth Maria Louwers
Tina Ann Maxian
Ayesa Nazneen Mian
Christian Victor O'Keefe
Santiago Pérez M.
John Jeremy Rice
Luchy Daniel Roteliuk
Ramin Sarrafizadeh
Scott Howard Seidman
David Harold Terry
Sidney Wen-Hsin Wang
Andreas Savva Xenophonots

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with Departmental Honors

Steven Ira Abrams
Mark Allan Barnes
Edwin Otis Bergman
Ellen Sue Berkowitz
Beth Berman
Susan Bernofsky
Jeffrey Berns
Paulette Bildner
Brenda Rae Bourne
Steven Brett
Andrea Bruce
Sulagna Chakraborty
Martin Citardi
Lisa Dorr
Ralph France
Michael Gatzke
Shaun Gelsinger
Carol Gerry
Todd Gilman
Joshua Mark Givelber
Jeffrey Horn
Cheryl Iglesia
Brian W. Kanaga
Nadine Leavitt
Jae Lee
Thomas Lee
David Loeb
Vineeta Lowell
Angela Lykos
Samantha MacBride
George Martin
Zacharias V. Mavrophilipos
Timothy McNamara
Paul Roy Markowitz
Jennifer Kristin Midura
Daniel Nigrin
Eric Nussbaum
Debra Olson
Sanjay Rao
Renya Michael Reed
Jay Reynolds
Nathan Rose
Daniel Schecter
Joseph Michael Schwartz
Suzanne Shanahan
Susan Shiber
Rachel Shocket
Kathryn Slanski
John Stachyra
Christine Stanfel
David Alan Stern
Denise Tanyol
Claudia Testa
James Thompson
Alzada Tipton
Alexandra VandeKamp
Heidi Van Elkan
James Douglas Weinrauch

Graduates from the Biology Honors Program

David Mark Loeb
Rachel Lynn Shocket

Graduates from the Humanistic Studies Honors Program

Daniel Laurence Buccino

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

Graduating with Departmental Honors

Michele Andrys
Matthew Banks
Claire Battistella
Kevin Bootes
Valeria Colesanti
Michael Davidow
Michael Ehrlich
Robert Gensure
Douglas Gordon Gibson
Susan Gorozdos
Steven Heiss
Khalil Jaouni
Deena Kieldsen
Wai Man Lam
Heinan Landa
Stanley Lau
Gary Lessing
Elizabeth Louwers
Kenneth Macturk
Tina Maxian
Scott McNamee
Ayesa Mian
Jacqueline Meister
Christian Victor O'Keefe
Santiago Perez M.
John Rice
Luchy Roteliuk
Ramin Sarrafizadeh
Scott Seidman
John Steckenrider
Khalid Tawansey
David Terry
Alan Tuttle

Baccalaureate Candidates in the School of Continuing Studies

Graduating with Honors

Drew Steven Cobb
Louise P. Galyon
Lois P. Griffiths
Ronnie E. Hege
David Jay Horowitz
Valerie Anne Krauss
Elliott I. Lachman
Nancy Irma Rockstroh
Susan K. Wright

CANDIDATES FOR DEGREES

as of May 12, 1987

A number of the students included in the lists which follow completed their degree requirements earlier in the academic year and could not be present today to receive their degrees in person.

BACHELORS OF ARTS

in The School of Arts and Sciences

Steven Ira Abrams, of Greenwich, Conn.
Susan Carol Adams, of Arlington, Va.
Yoon Jung Ahn, of Gibsonia, Pa.
Maria Socorro Alcalen, of Houston, Texas
Ilham A. Algayed, of Arlington, Va.
Frank Clayton Anderson, III, of Houston, Texas
Joan Andres, of Califon, N.J.
Norifusa John Anegawa, of Baltimore, Md.
Steven Lawrence Applebaum, of Hollywood, Fla.
Bryce A. Arrowood, of Tokyo, Japan.
Lisa Marie Asta, of Washington Crossing, Pa.
Ira Neil Bachman, of Great Neck, N.Y.
Joanne Dreisch Baggaley, of Timonium, Md.
Howard Nathan Baker, of Orange, Conn.
Michael Ross Balm, of Rochester, Minn.
Robert Cornel Balogh, of Liverpool, N.Y.
Scott Charles Baraban, of Bellmore, N.Y.
Donalda Vostina Barnes, of Oxon Hill, Md.
Mark Allan Barnes, of Beirut, Lebanon
Rayvelle Antoinette Barney, of Baltimore, Md.
Andrew Mark Barnstein, of Owings Mills, Md.
Judith Stephanie Bartfeld, of Bethesda, Md.
Kristen Lynne Barth, of Citrus Heights, Calif.
Joseph George Battaglia, Jr., of Brooklyn, N.Y.
Kimberley Lisa Bauman, of North Babylon, N.Y.
Sonja Ute Beals, of Perkasie, Pa.
Natasha Riekje Berger, of New Haven, Conn.
Edwin Otis Bergman, of Nyack, N.Y.
Ellen Sue Berkowitz, of Massapequa, N.Y.
Beth Diane Berman, of Huntington Woods, Mich.
Susan Bernofsky, of New Orleans, La.
Jeffrey Joseph Berns, of Woodmere, N.Y.
Jorey T. Bernstein, of Allendale, N.J.
Alexander Luke Bigazzi-Simonetta, of Farmington, Conn.
Richard Stanley Bigelow, of Okemos, Mich.
Paulette Joan Bildner, of Jericho, N.Y.
Martin Birnbach, of Coral Springs, Fla.
Gillian Black, of Woodstock, N.Y.
Cynthia A. Blair, of Ellicott City, Md.
Peter F. Blohm, of Lynbrook, N.Y.
Crystal Renee Blyler, of Apalachin, N.Y.
Kathleen Norah Bohan, of Richmond Mill, N.Y.
Jeanne Marie Boland, of Scranton, Pa.
Brian Scott Bolinger, of Ames, Iowa
Michael Robert Borland, of Baltimore, Md.
Brenda Rae Bourne, of Key Biscayne, Fla.
Michelle Boymann, of Richmond, Va.
LaVonna Jeannene Branker, of New York, N.Y.
Harsimran Singh Brara, of Santa Monica, Calif.
Deborah D. Brathwaite, of St. James, Barbados
William Carl Breazeale, of Knoxville, Tenn.
Steven Joseph Brett, of Brooklyn, N.Y.
Christopher Robert Briggs, of Stockton, Calif.
Jay Steven Brody, of Swampscott, Mass.
Patricia Jo Brooks, of Richmond, Ind.
Samuel W. Brown, of Concord, Mass.
Andrea Marie Bruce, of Thornwood, N.Y.
Thomas Edward Bryant, Jr., of Washington, D.C.
Craig McMillin Bubier, of Annapolis, Md.
Daniel Laurence Buccino, of Washington, D.C.
Rizwan Hassan Bukhari, of Dallas, Texas
Amanda Louise Busch, of Washington, N.J.
Carolann Butterworth, of Orleans, Mass.
John Laurence Caffrey, of Chappaqua, N.Y.
Thomas Joseph Cahill, of Franklin Lakes, N.J.
John Kachler Campbell, of Yazoo City, Miss.
Francis John Caprio, of Maplewood, N.J.
Paul Robert Carliner, of New York, N.Y.
Toni Angela Cascio, of Joppa, Md.
Stefano Luca Cazzaniga, of Scarsdale, N.Y.
Gregory James Cerilli, of Albany, N.Y.
Sulagna Chakraborty, of Poolesville, Md.
Sherman Morris Chamberlain, of Berkeley, Calif.
F. Leanna Chamish, of Baltimore, Md.
Bruce Francis Chanenchuk, of Massapequa Park, N.Y.
Donald Young Ik Chang, of Torrance, Calif.
Susan Su-Chi Chang, of Potomac, Md.
Donald Yen-Hung Chen, of Seattle, Wash.
Grace Chen, of Richardson, Texas
Joseph Cheng-Thai Chen, of Northridge, Calif.
David Ming Cheng, of River Vale, N.J.
David Sang-June Cho, of Irvine, Calif.
Soung In Cho, of Baltimore, Md.
Choi Choi, of Los Angeles, Calif.

Justin Chang-Kun Choi, of Bayside, N.Y.
Una Choi, of Portland, Ore.
Robert Chou, of Cherry Hill, N.J.
Andrew Byung-Suk Chun, of Budd Lake, N.J.
Jung Yun Chun, of Silver Spring, Md.
Michael Ki Chung, of Baltimore, Md.
Martin Jason Citardi, of New Rochelle, N.Y.
Charles Bernard Clagett, of Waldorf, Md.
John Benjamin Clark, of Ponca City, Okla.
Trent Reed Clarke, of Glendale, Ariz.
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Kevin Mark Cockroft, of Ridgewood, N.J.
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Kay Michele Nelsen, of Santa Monica, Calif.
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Dinh Quoc Nguyen, of Baltimore, Md.
Daniel Joseph Nigrin, of Staten Island, N.Y.
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Robert John Noorani, of Parkville, Md.
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Eric Spencer Nussbaum, of Philadelphia, Pa.
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Koreen Karen Parry, of St. Thomas, Virgin Islands
Sanjiv Ramesh Patel, of Walnut Creek, Calif.
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Melissa Lynn Peppe, of Frederick, Md.
James Warde Perry, of Severna Park, Md.
Jason Kendrick Perry, of Baltimore, Md.
Michael L. Place, of Huron, S.D.
Michael Joseph Pollard, of Largo, Md.
Marshall Todd Potashner, of Bridgewater, N.J.
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Samuel Michael Reiner, of Allentown, Pa.

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Ilene Robin Rosenzweig, of Port Washington, N.Y.
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Joel J. Salman, of Oceanside, N.Y.
Chrysso Barbara Sarkos, of Vienna, Ohio
Jonathan Stephen Savitz, of Weston, Mass.
Charles William Scharf, of Westfield, N.J.
Daniel James Schechter, of Baltimore, Md.
Steven Clay Schiller, of Scarsdale, N.Y.
Oren Jonathan Schlein, of Geneva, Switzerland
Arne Landmark Schoeller, of Minneapolis, Minn.
Bethany Lynn Schwartz, of Newton, Mass.
Joseph Michael Schwartz, of Great Neck, N.Y.
Kathleen Hunter Scogna, of Baltimore, Md.
Charlotte Louise Seydel, of Grosse Pointe, Mich.
Sanjit S. Shah, of Rego Park, N.Y.
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Michael Patrick Shea, of Oyster Bay Cove, N.Y.
Jacqueline Christina Shepard, of Washington, D.C.
Susan Kathleen Shiber, of Baltimore, Md.
Julia Stephanie Shields, of Laurence, N.Y.
Rachel Lynn Shocket, of Cincinnati, Ohio
Susan Lee Shone, of Austin, Texas
Anne Julia Siegel, of Weston, Conn.
Jeffrey Mark Sieracki, of Columbia, Md.
David Carroll Sill, of Ellicott City, Md.
Hernan Silva, of Oxford, N.C.
Robert Frank Simon, of West Orange, N.J.
Kathryn Elizabeth Slanski, of Trumbull, Conn.
Cynthia Louise Smith, of Greensburg, Pa.
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Katia Teresa Greaves Smith, of Silver Creek, N.Y.
Thomas Wilson Smith, Jr., of Erie, Pa.
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Michael E. Sohr, of Yonkers, N.Y.
Jason Louis Solotaroff, of New York, N.Y.
Catherine Liana Speiser, of Altadena, Calif.
Jeffrey Boyd Spence, Jr., of Towson, Md.
Amatsih Baruch Spigler, of Netanya, Israel
William Andrew Sray, of Bridgeton, N.J.
John Peter Stachyra, of Fair Lawn, N.J.
Hinrich Staecker, of Greenwich, Conn.
Suzanne Mednikarova Stamatov, of Armonk, N.Y.
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Simon Alexander Stark, of Scarsdale, N.Y.
David Alan Stern, of Scarsdale, N.Y.
Damon Channing Stewart, of Lloyd Harbor, N.Y.
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Lorelei Beth Stierlen, of Pearl River, N.Y.
Jill Ilene Strassner, of New York, N.Y.
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Rita Suri, of St. Louis, Mo. (Degree Conferred May 30, 1986)
Denise Tanyol, of Fort Washington, Pa.
Lisa Robin Taylor, of La Jolla, Calif.
Todd Carl Tenenholz, of Auburn, Pa.
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William F. Raedle, of Farmington, Mass.
Prakash Sampath, of Atco, N.J.
Khaled Aly Tawansy, of Troy, Mich.
Frederick F. Tsung, of Beaver, Pa.
Mars U. Wu, of Bethesda, Md.

BACHELORS OF CIVIL ENGINEERING

in The G.W.C. Whiting School of Engineering

August U. Bohmer, Jr., of Baltimore, Md.
John Hunter Boyle, of Abingdon, Md.
David Hugh Brown, of Abingdon, Md.
Robert Charles Eitel, of Pasadena, Md.
Robert Bernard Harrington, of Herndon, Va.
Kevin H. Jones, of Randallstown, Md.
Robert W. Tyson, of Baltimore, Md.

BACHELORS OF ELECTRICAL ENGINEERING

in The G.W.C. Whiting School of Engineering

Russell Edward Babylon, of Baltimore, Md.
Robert Newell Bryan, of Catonsville, Md.
Edward Frederick Drocella, of Pasadena, Md.
Kenneth E. Dworkin, of Columbia, Md.
Michael Edward Fields, of Baltimore, Md.
Daniel Edward Hammill, of Ellicott City, Md.
Harry Gordon Jacob, of Baltimore, Md.
Brian George Keggins, of Glen Burnie, Md.
Laurence Harwood Knighton, of Baltimore, Md.
Jason S. Koch, of Dundalk, Md.
Loyed B. Kroner, Jr., of Catonsville, Md.
William Edward Lampal, of Cockeysville, Md.
Jim C. Lee, of Belcamp, Md.
Thomas Martin Liles, of Shrewsbury, Pa.
Gregory Charles Malinski, of Baltimore, Md.
Joseph Dennis Maloney, of Baltimore, Md.
Curtis Jackson McTeer, of Baltimore, Md.
Charles S. Milcarek, of Timonium, Md.
Toan Dinh Nguyen, of Baltimore, Md.
George Allen, Olean, of Baltimore, Md.
Eugene George Ricks, of Glyndon, Md.
John Milton Sewell, of Baltimore, Md.
Clinton Conrad Shettle, of Laurel, Md.
David Joseph Trent, of Baltimore, Md.
Robert Mason Wheatley, of Eldersburg, Md.
Craig D. Wood, of Pasadena, Md.

BACHELORS OF INDUSTRIAL ENGINEERING

in The G.W.C. Whiting School of Engineering

John William Hicks, of Reisterstown, Md.
Charles W. Hornbeck, Jr., of Millersville, Md.

BACHELORS OF MECHANICAL ENGINEERING

in The G.W.C. Whiting School of Engineering

Susan Arabella Breen, of Baltimore, Md.
Mark Douglas Deisher, of Lutherville, Md.
George Walter Glaeser, Jr., of Baltimore, Md.
Theodore Jerome Hartka, of Baltimore, Md.
Andrew Joseph Killeen, of Catonsville, Md.
Jeffrey William Paul, of Bel Air, Md.
Steven Russell Pedersen, of Baltimore, Md.
Todd Evan Schlesinger, of Baltimore, Md.
David Edward Wilson, of Baltimore, Md.

PERFORMER'S CERTIFICATES

in The Peabody Conservatory of Music

John Fredrick Babcock, of Fallston, Md. Trumpet.
Natica Ann Blanch, of Miami, Fla. Horn.
Peter Kyle Kempter, of Albuquerque, N.M. Violoncello.
Janine Irene Klaassen, of Vienna, Va. Voice.
Robert Lee Parker, of Middletown, Md. Trumpet.
Paul Daniel Snurr, Jr., of Hagerstown, Md. Trumpet.
Warren David Sprague, of Walpole, Mass. Violoncello.
Arkadiusz Tesarczyk, of Laziska, Poland. Violoncello.

BACHELORS OF MUSIC

in The Peabody Conservatory of Music

Denis M. A. Atadan, of Wilmington, Del. Composition.
John Fredrick Babcock, of Fallston, Md. Music Education.
Carville Godfrey Bevans, III, of Baltimore, Md.; B.S. Moravian College, 1984. Bassoon.
Natica Ann Blanch, of Miami, Fla. Music Education.
Jacqueline Marie Capecci, of Pittsburgh, Pa. Viola.
Luisa Casasnovas, of Santo Domingo, Dominican Republic. Violin.
Chin Chee-Mee, of Singapore, Republic of Singapore. Violin.
Charles Edward Clark, of Hartford, Conn. Flute.
Gary Wade Coley, of Decatur, Ga. Music Education and Trombone.
Gia Comolli, of Yardley, Pa. Composition and Piano.
Christina Ann Dahl, of Glendale, Calif. Piano.
Christina Marie Darrigo, of Mississauga, Ontario, Canada. Guitar.
James Edward Gómez, of Huntsville, Ala. Violin.
David W. Gorrie, of Columbia, Md. Guitar.
Anne Frances Grady, of Endwell, N.Y. Violin.
Seung-Un Ha, of Newbury Park, Calif. Piano.
Monica Therese Hannapel, of Washington, D.C. Violoncello.
Wenlih Hsu, of Taipei, Taiwan, R.O.C. Piano.
Peter A. Kates, of Bellingham, Mass. Percussion.
Peter Lyle Kempter, of Albuquerque, N.M. Music Education.
Ned Charles Kirk, of Palo Cedro, Calif. Piano.
Elissa Catherine Koehler, of Baltimore, Md. Music Education and Trumpet.
Cheng-Wee Koh, of Singapore, Republic of Singapore. Violin.
David James LaVorgna, of Princess Anne, Md. Flute.
Stuart William LeBlanc, of New Orleans, La. Guitar.
Lang-In Liao, of Taipei, Taiwan, R.O.C. Voice.
Lin Chia-Chi, of Taipei, Taiwan, R.O.C. Violin.
Charlene Mary-Lu Marcinko, of Archbald, Pa. Voice.
David J. R. Meaux, of Lafayette, La. Music Education.
Steven M. Moran, of Brookville, N.Y. Double Bass.
Riina Piret Naumann, of Baltimore, Md. Piano.
Robert Lee Parker, of Middletown, Md. Music Education.
Nicholas James Pastelak, of Baltimore, Md. Timpani.
Sarah Elizabeth Paul, of Athens, Ga. Violoncello.
Michael Robert Pos, of Toronto, Ontario, Canada; B.M. Peabody Conservatory of Music, 1985. Recording Arts and Sciences.
Ivana Radakovich, of Belgrade, Yugoslavia, Violoncello.
Kurt Edward Rohde, of Highland, N.Y. Composition and Viola.
Joseph Ross Shalita, of Philadelphia, Pa. Oboe.
John David Shillingberg, Jr., of Hagerstown, Md. Piano.
Clifton Darnell Slaughter, of Philadelphia, Pa. Voice.
Paul Daniel Snurr, Jr., of Hagerstown, Md. Music Education.
Hardwick Ray Spencer, of Chatham, Va.; B.A. College of William and Mary, 1979. Music Education.
Warren David Sprague, of Walpole, Mass. Music Education.
Marta Szlubowska, of Warsaw, Poland. Violin.
Jwu-Jiun Tan, of Singapore, Republic of Singapore. Violin.
Joseph Douglas Terwilliger, of Wawarsing, N.Y. Tuba.
Bessie Elizabeth Thompson, of Kalamazoo, Mich. Piano.
Yumi Toyama, of Hiroshima, Japan. Piano.
Maria Louise Charlotte Vom Lehn, of San Diego, Calif. Music Education and Percussion.
Judith Louise Weaver, of Pittsburgh, Pa. Violin.
Amy Weller, of Burlington, Vt. Piano.
Carol Anne Westcott, of Woodbridge, Va. Voice.
Lisa J. Wienhold, of Anchorage, Alaska; B.M. Peabody Conservatory of Music, 1982; M.M., 1985. Recording Arts and Sciences.
Francis Jerome Winters, of Baltimore, Md. Saxophone.
Jean Marie Wu, of Garden City, N.Y. Piano.
Bryan William Zoelch, of Potomac, Md. Composition.

BACHELORS OF SCIENCE

in The School of Nursing

Lila Minerva Aguto, of Hunt Valley, Md.
Pamela Hofmann Barretto, of Baltimore, Md.; B.S. Loyola College, 1976.
Shari Lynne Beer, of Baltimore, Md.
Barbara Ann Bielas, of Baltimore, Md.
Maria Therese Boyd, of Camarillo, Calif.
Patricia Lee Convery, of Baltimore, Md.; B.A. Mt. St. Agnes College, 1968; M.Ed. The Johns Hopkins University, 1974.
Karen Lisa Cummings, of Baltimore, Md.
Susanne Letitia Fell, of Doyelstown, Pa.; B.A. Muhlenberg College, 1983.
Yvette Wynetta Finney, of Baltimore, Md.
Mary Teresa Flynn, of Pittsfield, Mass.
Colleen Marie Frei, of Grangeville, Idaho.
William James Fulcher, Jr., of Carmichael, Calif.
Linda Kay Galloway, of Severna Park, Md.
Rebecca Maxwell Hanson, of Baltimore, Md.
Amy Berman Heyman, of Baltimore, Md.
Karen Gail Horowitz, of Westbury, N.Y.
Courtney Glass Johnson, of Tulsa, Okla.
Catherine Frances Lux, of Greensboro, N.C.; B.A. The Johns Hopkins University, 1985.
Michael Martin, of Geneva, Ohio
Lee Ward Porter, of Chesapeake Beach, Md.
Margaret Jean Porter, of Laurel, Md.
Judith Marie Raboy, of Fairfax, Va.
Karen Weiland Rodgers, of Baltimore, Md.
Janet Sue Schneider, of Bethesda, Md.
Carol Lee Soya, of Rockville, Md.
Kim Hunt Thomas, of Lutherville, Md.
Donna Ann Williamson, of Columbia, Md.
Christine Susan Wright, of Golden, Colo.; B.A. Colorado Women's College, 1974.

ASSOCIATES OF ARTS

in The School of Continuing Studies

Charlotte Sandra Friedman, of Baltimore, Md.
Jeanne Ann Owings Gayle, of Baltimore, Md.
Patricia Joan Johnston, of Baltimore, Md.
Barbara A. Schmidt, of Baltimore, Md.

ASSOCIATES OF SCIENCE

in The School of Continuing Studies

Paul Edwin Abbott, Jr., of Timonium, Md.
Brian Elliot Appelfeld, of Millersville, Md.
Rebecca Jean Batta, of Severna Park, Md.
Kathleen Dolores Brinker, of Arbutus, Md.
Jacob Brodsky, of Washington, D.C.
Christopher Alan Brown, of Baltimore, Md.
Mark William Bumgardner, of Ellicott City, Md.
Linda Ann Couch, of Pasadena, Md.
Steven Raymond Cover, of Baltimore, Md.
Jack Lee Durrett, of Reisterstown, Md.
Joseph Philip Garber, of Eldersburg, Md.
Joseph Michael Hock, of Baltimore, Md.
Eugenia Thelma Jacobs, of Baltimore, Md.
Mark Charles Kreafle, of Baltimore, Md.
Richard Charles Novak, of Baltimore, Md.
Conroy Alexander Reid, of Baltimore, Md.
Theodore E. Schiller, Sr., of Baltimore, Md.
Michael Robert Schmidt, of Baltimore, Md.
David Wayne Sohl, of Laurel, Md.
Wayne Allan Strupp, of Baltimore, Md.
Wade Walters, of Baltimore, Md.
Samuel Jacob Wentz, of Glen Burnie, Md.
Michael M. Williams, Jr., of Baltimore, Md.
Benedict J. Ziemski, of Baltimore, Md.
James Alexander Zito, of Baltimore, Md.

BACHELORS OF SCIENCE

in The School of Continuing Studies

Kimberly Betty Lou Applefeld, of Millersville, Md. Accounting.
Deborah Atchison, of Baltimore, Md. Life Sciences.
Sally Elizabeth Baker, of Blue Bell, Pa. Psychology.
Cheryl Ann Beegle, of Baltimore, Md. Management/Leadership.
Jeffrey Boggs, of Baltimore, Md. Life Sciences.
Donna L. Brannan, of Baltimore, Md. Nursing
David Edward Brzozowski, of Baltimore, Md. General Business.
Pamela Jayne Burdell, of Baltimore, Md. English.
Sally A. Carr, of Baltimore, Md. English.
Drew Steven Cobb, of Baltimore, Md. Management/Leadership.
Rochelle Gail Conn, of Ellicott City, Md. Nursing.
Jacqueline Elizabeth Connor, of Catonsville, Md. Management/Leadership.
Johnny Rious Credle, of Cooksville, Md. Management.
Dawn Coleman Hollister Davis, of Baltimore, Md. Mathematics.
Anne Dorsey, of Baltimore, Md. Nursing
Anne Ebel, of Baltimore, Md. Life Sciences.
Patricia A. Ellison, of Wittman, Md. Psychology.
Catherine Feeley Fischer, of Baltimore, Md. Management.
Kathryn M. Foegen, of Falls Church, Va. General Business.
Howard Frank, of New York, N.Y. Life Sciences.
Louise P. Galyon, of Ellicott City, Md. Management.
David Paul Glock, of Westminster, Md. Mathematics.
Robert Hezekiah Greene, Jr., of Baltimore, Md. Psychology.
Lois P. Griffiths, of Baltimore, Md. English.
Pamela Harvey, of Baltimore, Md. Psychology.
Ronnie E. Hege, of Baltimore, Md. Management/Leadership.
David Jay Horwitz, of Baltimore, Md. Life Sciences.
Frederick Howard, of Baltimore, Md. Life Sciences.
James F. Husband, II, of Reisterstown, Md. General Business.
Jeffrey M. Knobel, of Pikesville, Md. Life Sciences.
Valerie Anne Krauss, of Baltimore, Md. Management/Leadership.
Mordchai Krausz, of Baltimore, Md. Social Sciences.
Corrinne Kulick, of Mitchellville, Md. Life Sciences.
Susan V. Kulik, of Baltimore, Md. Nursing.
Elliot I. Lachman, of Baltimore, Md. Social Sciences.
Rosalie Lang, of Baltimore, Md. General Business.
Stanley B. Latimer, of Baltimore, Md. Physical Sciences.
Catherine Pierce Loeb, of Baltimore, Md. Social Sciences.
Deborah Lynn Mangold, of Joppatown, Md. Psychology.
Edward Phillip McCracken, of Baltimore, Md. Liberal Studies.
Merrie Frances Miller, of Catonsville, Md. Liberal Studies.
Julita Nieve, of Randallstown, Md. Life Sciences.
Raymond Lee Noteware, Sr., of Pasadena, Md. General Business.
Betty L. Price, of Baltimore, Md. Nursing.
Arthur Edwin Proctor, of Street, Md. Management.
Anthony Michael Raspa, of Baltimore, Md.; A.A. The Johns Hopkins University, 1981. Social Sciences.
Nancy Irma Rockstroh, of Owings Mills, Md. Management/Leadership.

Robin Renee Ruth, of Baltimore, Md. Management/Leadership.
Carolyn Louise Santry, of Timonium, Md. Mathematics.
Stephen A. Seth, of Baltimore, Md. General Business.
Noah Shavrick, of Baltimore, Md. Life Sciences.
Pamela Rose Simancek, of Baltimore, Md. Life Sciences.
Nelson Monroe Sisson, of Finksburg, Md. Mathematics.
Victoria Holt Stauffer, of Severna Park, Md. Mathematics.
Stephen John Stewart, of Baltimore, Md. Mathematics.
Kondylo I. Stratigakos, of Timonium, Md. Management.
Michael Theodore Watson, of Baltimore, Md. Management/Leadership.
Molly McCormick Weiss, of Arlington, Vt. General Business.
Frederick Mark Weller, of Baltimore, Md. General Business.
Rosalita Rae Wheatley, of Baltimore, Md. Liberal Studies.
Catherine Elizabeth Wilcoxon, of Glen Burnie, Md. Nursing.
Charles William Wilson, of Baltimore, Md. Management/Leadership.
Susan Klein Wright, of Annapolis, Md. Management/Leadership.

MASTERS OF SCIENCE

in The School of Continuing Studies

Kathleen M. Abrams, of Silver Spring, Md.; B.S. Georgetown University, 1966; M.A. Catholic University, 1970. Education.

Patricia Adkins, of Pasadena, Md.; B.A. University of Maryland Eastern Shore, 1976. Education.

Ann Klein Andorsky, of Baltimore, Md.; B.A. Brooklyn College, 1968; M.S., 1971. Education.

Mary E. Anzelmo, of Takoma Park, Md.; B.A. George Washington University, 1970; M.A. Catholic University, 1975. Education.

Mary Elizabeth Auld-Whitaker, of Lisbon, Md.; B.A. Catholic University of America, 1973. Education.

Francesca Maria Avelleyra, of Silver Spring, Md.; M.Ed. George Washington University, 1979. Education.

Rita Mary Baker, of Baltimore, Md.; B.S. Coppin State College, 1977. Education.

Stephen L. Balser, of Baltimore, Md.; M.A.L.S. Wesleyan University, 1972. Education.

Rebecca Boender Barbusca, of Ellicott City, Md.; B.A. Loyola College, 1980. Education.

Cynthia Bartholomew, of Catonsville, Md.; B.A. University of Maryland Baltimore County, 1983. Education.

Linda Gail Barton, of Baltimore, Md.; B.S. Pennsylvania State University, 1977. Education.

Valorie J. Beard, of Harrisburg, Pa.; B.S. St. Joseph College, 1978. Education.

Judith Elaine Beck, of Baltimore, Md.; B.A. Wilson College, 1975. Applied Behavorial Science.

Juanita Saundra Bellamy, of Baltimore, Md.; M.Ed. Coppin State College, 1974. Education

Janet Beers Bendann, of Baltimore, Md.; B.A. College of William and Mary, 1965. Education.

Robert Blaine Birthisel, of Severna Park, Md.; B.S. University of San Francisco, 1983. Education.

Shirley Patrick Blackwell, of Bowie, Md.; M.S. Syracuse University 1961. Education.

Paula Lee Bolduc, of Towson, Md.; B.A. University of Rhode Island, 1979. Education.

Diane M. Bonanni, of Shadyside, Md.; B.S. University of Maryland, 1980. Education.

Christine Mary Bonfoey, of Randallstown, Md.; B.A. Central Michigan University, 1970. Education.

Lawrence Everett Bowen, of Silver Spring, Md.; B.A. Georgetown University, 1977. Counseling and Human Development.

Rita Denise Bradby, of Baltimore, Md.; B.A. Goucher College, 1975. Education.

Natalie A. Braden, of Lansing, Mich.; B.A. Michigan State University, 1954; M.A., 1958. Education

Patricia Ann Brady, of Towson, Md.; B.S. Towson State University, 1983. Education.

Kathleen Cecelia Breymaier, of Parkville, Md.; B.S. Towson State University, 1978. Education.

Jamie Fran Brill, of New York, N.Y.; B.S. University of Maryland, 1978. Education.

JoAnn Mary Brodeur, of Baltimore, Md.; R.N. St. Agnes, 1965. Education.

Bruce Michael Brown, of Middletown, Md.; B.A. State University of New York, 1966; M.Ed. Shippensburg State College, 1976. Education.

Doreen Brown-Passaniti, of Baltimore, Md.; B.A. University of Maryland, 1978. Education.

Judith Fisher Bruner, of Columbia, Md.; B.S. University of Maryland, 1970. Education.

Dale Michael Buchanan, of Baltimore, Md.; M.Ed. Coppin State College, 1973. Education.

Thomas B. Buck, of Baltimore, Md.; B.A. Washington, University, 1973. Education.

Gail Ellen Buller, of Pasadena, Md.; B.S. Millersville State College, 1963. Education.

Angela Christine Byers, of Fort Meade, Md.; B.S. University of Maryland, 1983. Education.

Danea Ann Caskey, of Forest Hill, Md.; B.A. Washington College, 1972. Education.

Drue Slaughter Clempner, of Annapolis, Md.; B.S. University of Maryland, 1970. Education.

Pauline Joy Cohen, of Columbia, Md.; M.Ed. Loyola College, 1974. Education.

Susan Reincke Cohen, of Catonsville, Md.; M.S. Loyola College, 1980. Education.

Marilyn Leah Colson, of Baltimore, Md.; B.A. Goucher College, 1952. Education.

A. Robert Cook, of Sacramento, Pa.; B.S. Valley Christian, 1978. Education.

Bonnie Lambert Cooper, of Westminster, Md.; B.S. Towson State University, 1981. Education.

Cynthia Marie Cramer, of Stevensville, Md.; B.S. University of Maryland, 1979.

Karen Sue Crossley, of Rockville, Md.; B.M.C. Shendoah College of Music, 1980. Education.

Ellen Dena Croucher, of Baltimore, Md.; B.S. Coppin State College, 1980. Education.

Bruce Lewis Damasio, of Reisterstown, Md.; B.A. Grove City College, 1974; M.Ed. Western Maryland College, 1979. Education.

M. Nancy Davis, of York, Pa.; B.S. York College of Pennsylvania, 1978. Education.

Cynthia Dean, of Pasadena, Md.; B.S. Salisbury State College, 1963. Education.

Marilyn Louise Deans, of Catonsville, Md.; B.S. Geneva College, 1978. Education.

Mary Elizabeth De Groot, of Annapolis, Md.; B.S.N. The Johns Hopkins University, 1966; M.S. University of Delaware, 1975. Education.

Valerie Mary De Palma, of Baltimore, Md.; B.A. William Paterson College of New Jersey, 1981. Education.

Eileen Fran Diener, of Brooklandville, Md.; B.A. Connecticut College, 1983. Education.

Susan M. Dietrich, of Columbia, Md.; B.S. Western Maryland College, 1968. Education.

Michele Edith Dilegge, of Baltimore, Md.; B.A. University of Maryland, 1980. Education.

Alexandra Dimitroff, of Deerborn, Mich.; B.A. University of Michigan, 1974; A.M.L.S., 1982. Education.

Margaret Ahrens Donnellon, of Gaithersburg, Md.; B.A. Hunter College of the City University of New York, 1970. Education.

Susan Jane Dougherty of Dallastown, Pa.; B.S.Ed. Indiana University of Pennsylvania, 1974; M.S.Ed. Western Maryland College, 1979. Education.

Marlene B. Downs, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1979. Education.

Carolyn McLean Dunn, of Baltimore, Md.; B.S. Towson State University, 1974. Education.

Sally Dusold, of Arnold, Md.; B.S. Wright State University, 1973. Education.

Pauline D. Edwards, of Baltimore, Md.; B.S. Morgan State University, 1975. Education.

Lois J. Emershaw-Machinist, of Baltimore, Md.; B.S. The Johns Hopkins University, 1981. Education.

Ruth Wallace Evans, of Baltimore, Md.; B.A. Morgan State University, 1971; M.S. Coppin State College, 1983. Education.

Barbara Lynn Farkas, of Thurmont, Md.; B.A. Hood College, 1980. Applied Behavorial Science.

Joan Ann Faulstich, of Cockeysville, Md.; B.S. Towson State University, 1982. Applied Behavorial Science.

Betsy Allen Feiker, of Hollis, N.H.; M.Ed. Smith College, 1978. Education.

Lisa Reale Fields, of Ellicott City, Md.; B.S. Salisbury State College, 1981. Education.

Brian Nelson Fish, of Baltimore, Md.; Th.M. Dallas Thealogical Seminary, 1983. Education.

Pamela Hone Fitzgibbon, of Baltimore, Md.; B.A. Vassar College, 1983. Education.

Mary Grace Flaherty, of Baltimore, Md.; B.S. Pennsylvania State University, 1982. Applied Behavioral Sciences.

Linda Bearg Flanagan, of Columbia, Md.; M.S. University of Utah, 1975. Education.

Penny Ortel Friesland, of Columbia, Md.; B.S. Towson State University, 1968; M.L.A. The Johns Hopkins University, 1971. Education.

Julie R. Fuller, of Forest Hill, Md.; B.A. Loyola College, 1982. Education.

Leslie Holt Gardner, of Towson, Md.; B.A. College of Notre Dame, 1978. Education.

Marjorie Louise Gardner, of Ellicott City, Md.; M.Ed. University of Maryland, 1975. Education.

Stephen Leonard Gibbons, of Lilburn, Ga.; B.S. University of Baltimore, 1978. Applied Behavorial Science.

Irene Miriam Giguere, of Baltimore, Md.; B.A. Concordia Teacher's College, 1966. Education.

David R. Glaser, of Columbia, Md.; M.S. Pratt Institute, 1976.Applied Behavioral Science.

Bruce Michael Goldstein, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1985. Education.

Penny Ellen Gow, of Baltimore, Md.; B.S. Bloomsburg State College, 1978. Education.

Joan Thomas Green, of Baltimore, Md.; B.S.N. University of Maryland, 1977. Education.

Ruth Setren Green, of Baltimore, Md.; B.A. Towson State University, 1968. Education.

Eileen Sharon Greenberg, of Columbia, Md.; B.S. University of Maryland, 1975. Education.

Frances Patricia Greives, of Columbia, Md.; B.A. St. Olaf College, 1969. Education.

Beth Michele Grimm, of Sparks, Md.; B.S. Quinnapiac College, 1982. Education.

Peggy Britt Griswold, of Annapolis, Md.; M.S. University of North Carolina, 1958. Education.

Raymond O. Halverson, of Ellicott City, Md.; B.S. Northern State College, 1958. Education.

Helen Hamerstrom, of Arnold, Md.; B.A. Cornell University, 1964. Education.

Marla Monica Handy, of Arlington, Va.; B.S. Grand Valley State, 1983. Education.

Richard Allen Hanzevack, of Baltimore, Md.; M.S. Loyola College, 1985. Education.

Jennifer Ordeman Harbold, of Baltimore, Md.; B.A. Williams College, 1981. Education.

James Brooke Harper, of Washington, D.C.; B.A. University of Maryland College Park, 1968; M.Ed. Bowie State College, 1975. Education.

Joann Harvin, of Baltimore, Md.; B.S. Morgan State College, 1972. Education.

Thomas A. Hayes, of Aberdeen, Md.; B.S. Shippensburg State University, 1971. Education.

Glenn Wood Heisey, of Baltimore, Md.; B.S. Towson State University, 1979. Education.

Shelley Hendler, of Baltimore, Md.; B.S. University of Maryland, 1980. Education.

Mary Shea Hendricks, of Catonsville, Md.; B.S. James Madison, University, 1978. Education.

Michael Anton Henningsen, of Phoenix, Ariz.; B.S. Northern Arizona University, 1983. Applied Behavioral Science.

Susi Gayle Herbert, of Owings Mills, Md.; B.A. University of Maryland Baltimore County, 1976. Education.

Grafton Rodgers Hersperger, of Baltimore, Md.; B.A. The Johns Hopkins University, 1971. Education.

Linda Jean Hertz, of Burtonsville, Md.; B.S. University of Maryland, 1971; M.Ed. 1982. Education.

Sue Ann Hewett, of Charlotte, N.C.; B.A. College of Wooster, 1978. Education.

Norman Hu, of Baltimore, Md.; B.S. University of Wisconsin, 1978. Education.

Maryann Hughes, of Baltimore, Md.; B.A. State University College at Cortland, 1977. Education.

Judith Munaker Jacobs, of Davidsonville, Md.; B.S. Bowie State College, 1981. Education.

Kathleen Marie Johnson, of Baltimore, Md.; B.S. St. Joseph's University, 1982. Education.

Patricia Ramsey Jones, of Baltimore, Md.; M.S. Loyola College, 1978. Education.

Elaine Priscilla Kalman, of Silver Spring, Md.; B.S. Towson State University, 1980. Education

Gayle Pence Keaton, of Severna Park, Md.; B.S. James Madison University, 1975. Education.

Mary Jayne Kelly, of Jupiter, Fla.; B.S. Old Dominion University, 1983. Education.

Nancy B. Kirkland, of Owings Mills, Md.; B.S. Towson State University, 1980. Education.

Jamie Ciabattoni Koch, of Baltimore, Md.; B.S. Marywood College, 1981. Education.

Rosalind Gordon Kopp, of Bethesda, Md.; B.F.A. Boston University, 1965. Education.

Fifi Kutson, of Cockeysville, Md.; B.S. Towson State Uni-University, 1975. Education.

Martha Dembeck Langhirt, of Baltimore, Md.; B.S. Salisbury State College, 1973. Education.

David Lassiter, of Olney, Md.; M.A. Howard University, 1970. Applied Behavioral Science.

Margaret Ann Latchaw, of Arnold, Md.; B.S. Frostburg State College, 1971. Education.

Douglas E. Lewis, of Baltimore, Md.; B.S.E. Princeton University, 1981. Urban Planning and Policy Management.

Florence T. Lough, of Baltimore, Md.; B.S. Towson State University, 1971. Education.

Pamela Luft, of Washington, D.C.; M.A. Western Maryland College, 1976. Education.

Paula Lorraine Matthews, of Baltimore, Md.; B.S. University of Maryland, 1978. Education.

Kathryn Louise Mautino, of Baltimore, Md.; B.A. University of Florida, 1980. Education.

Dena Tuchman Mayerfeld, of Baltimore, Md.; B.S. City College of New York, 1982. Education.

Mary Jane Mayo, of Glencoe, Md.; B.S. Virginia Polytechnic Institute and State University, 1977. Education.

Regina Marie McDonald, of Towson, Md.; B.S. University of Connecticut, 1983. Education.

Margaret Leann McIntosh, of Baltimore, Md.; B.A. Wichita State University, 1970. Applied Behavioral Science.

James Clayton McIntyre, of Columbia, Md.; B.A. Washington College, 1982. Education.

Patricia McIntyre, of Glen Burnie, Md.; M.Ed. Loyola College, 1982. Education.

William Lawrence McIver, of Baltimore, Md.; B.S. Florida State University, 1982. Education.

Margaret Mary McNally, of Baltimore, Md.; B.A. University of Maryland, 1976. Education.

Janice Gail McNew, of Annapolis, Md.; B.S. University of Maryland, 1973. Education.

Patricia Ellen McSorley, of Towson, Md.; B.S. The Johns Hopkins University, 1984. Education.

Barbara Mary Melfa, of Baltimore, Md.; B.A. Towson State University, 1974. Education.

Joan N. Miller, of Baltimore, Md.; M.Ed. Loyola College, 1971. Education.

Judith Ann Miller, of Valparaiso, Md.; B.S. Ball State University, 1966; A.A. Essex Community College, 1984. Education.

Kenneth Cameron Miller, III, of Baltimore, Md.; B.A. Washington and Lee University, 1975. Education.

Mark E. Mooney, of Edgewater, Md.; M.A. Webster College, 1981. Applied Behavioral Science.

Joy Mikuluk Morgan, of Redmond, Wash.; B.S. Bowling Green State University, 1982. Education.

Rhonda Ann Munson, of Berwyn Heights, Md.; B.A. St. Marys' College of Maryland, 1983. Education.

Dale Stephen Murray, of Glen Burnie, Md.; B.A. St. Mary's College of Maryland, 1978. Applied Behavioral Science.

Barbara Jean Nail, of Columbia, Md.; B.A. St. Mary's College of Maryland, 1981. Education.

Harriet Novakovich, of Silver Spring, Md.; M.S. Illinois University, 1958. Education.

Melanie Cecile Octeau, of Baltimore, Md.; B.A. Goucher College, 1982. Education.

Cindy Bayle O'Leary, of Beltsville, Md.; B.S. Pennsylvania State University, 1978. Education.

Lisa Claire Oleson, of Towson, Md.; B.A. Goucher College, 1982. Education.

Patricia R. Ourand, of Ft. Benning, Ga.; B.A. Loyola College, 1978; M.S., 1979. Education.

Brendell Turner Palmer, of Baltimore, Md.; B.A. North Carolina College at Durham, 1971. Applied Behavioral Science.

Anna Lynn Parlett, of Stewartstown, Pa.; B.A. Dickinson College, 1982. Education.

Louise Marie Pascal, of Ellicott City, Md.; B.S. Mount St. Mary's Colege, 1979. Education.

Stacie Lee Patti, of Cockeysville, Md.; B.S. University of Maryland, 1982. Education.

Lee Roy Payne, Jr., of Millersville, Md.; B.S. Towson State University, 1973. Education.

Rose Pentz, of Eldersburg, Md.; B.S. Frostburg State College, 1982. Education.

Katherine Teresa Perkins, of Baltimore, Md.; B.A. The Johns Hopkins University, 1983. Education.

Rosemarie Laub Pesce, of Baltimore, Md.; B.S.W. Temple University, 1977. Education.

Bonnie Lim Peterson, of Bowie, Md.; B.A. Hood College, 1982. Education.

Frederick Edward Powers, of Annapolis, Md.; B.S. State University of New York at Oswego, 1979. Education.

Tracy Helene Puckett, of Rockville, Md.; B.S. University of Michigan, 1981. Education.

Joan Eustace Pugh, of Joppa, Md.; B.S. Towson State University, 1965. Education.

John Rory Quinn, of Columbia, Md.; B.S. Pennsylvania State University, 1977. Education.

Denise Golden Raley, of Valley Lee, Md.; B.A. University of Maryland Baltimore County, 1974. Education.

Theresa Mary Ramsay, of Baltimore, Md.; B.S. James Madison University, 1984. Education.

Nancy L. Rando, of Columbia, Md.; B.A. University of Michigan, 1971. Applied Behavioral Science.

Frank Rappa, of Baltimore, Md.; B.A. Towson State University, 1978. Education.

Peggy Wilson Ratsch, of Baltimore, Md.; B.S. Towson State University, 1965. Education.

Judy J. Rein, of Columbia, Md.; B.S. University of Maryland, 1974; M.S. Virginia Commonwealth University, 1980. Education.

Margaret Ann Reitz, of Baltimore, Md.; M.Ed. Loyola College, 1982. Education.

Robert Jon Remington, of Philadelphia, Pa.; B.S. Temple University, 1972. Education.

Susan Beth Richardson, of Annapolis, Md.; B.A. Westminster College, 1973. Education.

Donald Ralph Ricketts, Jr., of Baltimore, Md.; B.S. Towson State University, 1976. Education.

Sherrlyn Elizabeth Rogala, of Joppatowne, Md.; B.S.N. University of Maryland, 1976.

Gary Shelton Ross, of Columbia, Md.; B.S. University of Maryland, 1971. Education.

Gayle Lynn Ross, of Cockeysville, Md.; B.S. Virginia Commonwealth University, 1984. Education.

Anita Lucille Roy, of Randallstown, Md.; B.A. Rivier College, 1972. Education

Carrie Rene Ruffo, of Annapolis, Md.; B.S. University of Maryland, 1982. Education.

Greta Davenport Rutstein, of Baltimore, Md.; B.S. Connecticut College, 1983. Education.

Sharon L. Ryan, of Lakewood, Colo.; B.A. University of Northern Colorado, 1969. Education.

Mary Jane Robertson Sasser, of Burtonsville, Md.; B.A. University of Maryland at College Park, 1978. Applied Behavioral Science.

Laura Geibel Savage, of Columbia, Md.; B.A. University of Texas, 1974. Education.

Kathryn Mary Saylor, of Dallastown, Pa.; B.A. Elizabethtown College, 1977. Education.

Dennis Allen Sayre, of Silver Spring, Md.; B.S. Slippery Rock State College, 1969. Education.

Daniel Michael Schaffhauser, of Baltimore, Md.; B.S. Indiana University of Pennsylvania, 1972. Education.

Susan Rozankowski Schiaffino, of Glen Rock, Pa.; B.S. Towson State University, 1979. Education.

Diane Louise Schmidt, of Monkton, Md.; B.S. Towson State University, 1982. Education.

Herman Carl Schmidt, of Annapolis, Md.; M.A. Michigan State University, 1968. Education.

Marilyn Schneider, of Laurel, Md. Education.

Susan D. Schuler, of Millersville, Md. B.S. Towson State University, 1975. Education.

Anne Bourgeois Schult, of Severna Park, Md.; B.S. University of Dayton, 1965. Education.

Christine M. Schumacker, of Baltimore, Md.; M.A. The College of William and Mary, 1982. Education.

Audrey Elaine Seaton-Bacon, of Sykesville, Md.; B.A. Goucher College, 1984. Education.

Rose Newman Shefrin, of Columbia, Md.; B.S. University of Maryland, 1971. Education.

Eileen Fran Shiffman, of Baltimore, Md.; B.S. University of Maryland, 1983. Education.

Ralph Lynn Shumake, of Glenwood, Md.; B.S. St. Louis College, 1971. Applied Behavioral Science.

Katherine Bradley Smith, of Timonium, Md.; B.S. Towson State College, 1956; M.S., 1978. Education.

Johanna Snyder, of Baltimore, Md.; M.Ed. Towson State University, 1974. Education.

Phyllis Sosnick, of Columbia, Md.; M.A. Ohio State University, 1979. Education.

Diane Marie Stahl, of Hagerstown, Md.; B.S. Salisbury State College, 1977. Education.

Barri Joan Standish, of Columbia, Md.; B.A. University of Maryland, 1959. Applied Behavioral Science.

Nancy Ellen Stower, of Glen Burnie, Md.; B.A. Towson State University, 1978. Education.

Richard Earl Suskind, of Baltimore, Md.; B.A. The Johns Hopkins University, 1977. Education.

Carol Rebecca Swersky, of Owings Mills, Md.; B.S. The Johns Hopkins University, 1984. Education.

Betty Norris Thomas, of Columbia, Md.; B.S. Towson State University, 1960. Education.

Janice K. Thomas, of Annapolis, Md.; M.Ed. University of Maryland, 1976. Education.

Sharlene Parthree Thompson, of Phoenix, Md.; B.A. College of Notre Dame of Maryland, 1982. Applied Behavioral Science.

Patricia A. Torchia, of Baltimore, Md.; B.A. University of Notre Dame, 1984. Education.

Charles P. Toth, of Baltimore, Md.; B.A. University of Pittsburgh, 1969; M.L.A. The Johns Hopkins University, 1974. Education.

Victoria Plaks Tsitlik, of Reisterstown, Md.; B.S. Leningrad State Pedagogical Institute, 1963. Applied Behavioral Science.

Cathy Jean Uchuck, of Baltimore, Md.; B.S. Towson State University, 1978. Education.

Ellen A. Uhlfelder, of Baltimore, Md.; B.S. Towson State University, 1980. Education.

Janice L. Virsack, of Baltimore, Md.; B.S. Edinboro State College, 1970. Education.

Andrea Mercedes Waldron, of Columbia, Md.; B.S. Towson State University, 1981. Education.

Karen Grace Walther, of Arnold, Md.; B.S. University of Maryland, 1981. Education.

John S. Ward, of Baltimore, Md.; B.A. University of Maryland, 1980. Education.

Anita Scott Ware, of Falls Church, Va.; B.A. Bridgewater College, 1968. Applied Behavioral Science.

Stephen Paul Warner, of Baltimore, Md.; B.S. Towson State University, 1968. Education.

Pamela D. Watson, of Reisterstown, Md.; B.F.A. Maryland Institute, 1979. Urban Planning and Policy Management.

Carol-jean B. Webster, of Bowie, Md.; B.S. University of Maryland, 1963; M.Ed. 1972. Education.

Janice G. Weed, of Columbia, Md.; B.A. University of Puget Sound, 1970. Education.

Teresa M. Wicklin, of Baltimore, Md.; B.S. Towson State University, 1982. Education.

Bruce William Wiegert, of Baltimore, Md.; B.S. St. Cloud State, 1965. Education.

Edith Tuckerman Williams, of Baltimore, Md.; J.D. University of Baltimore School of Law, 1977. Education.

Kandace Brezina Williams, of Lanham, Md.; B.S. University of Maryland, 1979. Education.

Nancy A. Winters, of Richmond, Va.; B.S. Towson State University, 1982. Applied Behavioral Science.

Myra Iris Wittik, of Randallstown, Md.; B.S. Towson State University, 1962. Applied Behavioral Science.

Shelia P. Wolff, of Gambrills, Md.; B.A. University of South Carolina, 1964. Applied Behavioral Science.

Darlene Elizabeth Wolinski, of Baltimore, Md.; B.S. Towson State University, 1982. Education.

Eleanor O'Donovan Yaggy, of Sparks, Md.; B.A. Manhattanville College, 1965. Education.

Anita Rose Yandrisevits, of Ft. Rucker, Ala.; B.S. West Chester State College, 1980. Education.

Catherine Hecht Young, of Baltimore, Md.; B.M. American University, 1976. Education.

Melody G. Young, of New Castle, Del.; B.A. Wake Forest University, 1966; M.L.A. The Johns Hopkins University, 1983. Education.

Douglas C. Yust, of Westminster, Md.; B.A. Western Maryland College, 1973. Education.

Paulette Thompson Zee, of Ellicott City, Md.; B.A. Morgan State University, 1968. Applied Behavioral Science.

Katie D. Zellars, of Baltimore, Md.; M.S. University of Maryland, 1974. Education.

MASTERS OF LIBERAL ARTS

in The School of Continuing Studies

Georgia Grabill Beyard, of Timonium, Md.; B.A. College of Notre Dame of Maryland, 1975.

Leslie Tomblin Blakely, of Baltimore, Md.; B.B.A. Georgia State University, 1979.

John Purviance Bonsal, Jr., of Oxford, Md.; B.S. The Johns Hopkins University, 1984.

Patrice Chester Burd, of Baltimore, Md.; B.A. St. Lawrence University, 1962.

William Orville Carr, of Bel Air, Md.; B.S. Towson State University, 1970; J.D. University of Maryland Law School, 1973.

Jeffrey N. Christopher, of Baltimore, Md.; B.A. University of Baltimore, 1979.

Karen Lee Cifranick, of Joppa, Md.; B.S. Clarion State College, 1977.

Anne Mary Collins, of Via Aurelia, Italy; B.F.A. Massachusetts College of Art, 1979.

Judith A. Cordish, of Baltimore, Md.; B.A. Emory University, 1976.

Mary Persons Edgar, of Phoenix, Md.; B.A. Duke University, 1959.

William Dennis Facciolo, of Hockessin, Del.; B.A. University of Delaware, 1974.

David Graham Fielding Fidler, of Baltimore, Md.; B.A. College of William and Mary, 1974.

Patience Fritz, of Lutherville, Md.; B.A. College of Notre Dame of Maryland, 1982.

Jane Goldsborough, of Baltimore, Md.; R.N. The Johns Hopkins School of Nursing, 1964; B.S. The Johns Hopkins University, 1966.

Sandra Susan Hays, of Baltimore, Md.; B.M. Peabody Conservatory of Music, 1977.

David Warren Hilger, of Baltimore, Md.; B.S. United States Merchant Marine Academy, 1977; B.A. Towson State University, 1980.

Harriet Catherine Landon, of Baltimore, Md.; B.S. The Johns Hopkins University, 1980.

Charity Ann Levero, of Baltimore, Md.; B.A. Loyola College, 1979.

Reneé Lorraine McGinnis, of Phoenix, Md.; B.A. Loyola College, 1978.

Charles William Meyers, of Randallstown, Md.; B.S. The Johns Hopkins University, 1981.

Laura Ross Moody, of Bel Air, Md.; B.A. Hood College, 1973.

Debra Orendorff Nagle, of Parkton, Md.; B.S. Miami University, 1978.

Rosanne Catherine Natale, of Laurel, Md.; B.A. Mount Holyoke College, 1981.

Pamela Ann Potter-Hennessey, of Baltimore, Md.; B.F.A. Maryland Institute of Art, 1971.

Hawley Rogers, of Glencoe, Md.; B.A. Yale University, 1960.

Kraft Herman Rompf, of Ellicott City, Md.; M.A. The Johns Hopkins University, 1972.

John William Snow, of Jacksonville, Fla.; B.A. University of Toledo, 1962; LL.B. George Washington University, 1967.

Robert Lee Taylor, of Riviera Beach, Md.; M.A. George Washington University, 1975.

Terri Ann Wainwright, of Bel Air, Md.; B.S. The Johns Hopkins University, 1977.

Mary Weldon Yannuzzi, of Baltimore, Md. B.S. St. Peter's College, 1970.

MASTERS OF ADMINISTRATIVE SCIENCE

in The School of Continuing Studies

Margaret Able, of Baltimore, Md.; B.A. Morgan State University, 1980.

Jean Abramson, of Baltimore, Md.; M.S.W. University of Maryland, 1977.

Anne M. Akers, of Germantown, Md.; B.S. Pennsylvania State University, 1982.

Jeffrey Michael Alderman, of Eldersburg, Md.; B.S. Pennsylvania State University, 1981.

Monica Evette Allen, of Beltsville, Md.; B.S. American University, 1982.

Howard Gerry Anderson, of Baltimore, Md.; J.D. University of Toledo, 1980.

Marsha Clair Arnold, of Timonium, Md.; B.S. Towson State University, 1984.

Claude Artis, of Baltimore, Md.; B.S. The Johns Hopkins University, 1981.

Daniel Gary Bancroft, of Baltimore, Md.; B.A. The Johns Hopkins University, 1982.

Rebecca Baroffio, of Columbia, Md.; B.S. University of Tampa, 1974.

Myrna Nadine Beal, of Ellicott City, Md.; B.A. University of Maryland, 1964.

Jerome Robert Becnel, of Laurel, Md.; B.S. University of Southern California, 1980.

Lawrence Charles Bettac, of Bel Air, Md.; B.S. Ashland College, 1982.

Harriett Viola Bias-Branch, of Baltimore, Md.; B.S.N. Univesity of Maryland, 1980.

Edward Paul Blaustein, of Baltimore, Md.; B.S. University of Maryland, 1982.

Mary E. Botterbusch, of Timonium, Md.; B.A. Shippensburg State College, 1980.

David Timothy Boyce, of Baltimore, Md.; B.S. Towson State University, 1978.

Carnell M. Boyle, of Reisterstown, Md.; B.S. University of Maryland, 1969.

Randall Michael Brown, of Pasadena, Md.; B.A. University of Maryland Baltimore County, 1977.

Cynthia Louise Brundige, of Columbia, Md.; B.S. Syracuse University, 1979.

Marvin Lewis Buckner, of Arnold, Md.; B.S. Michigan Technological University, 1976.

Dennis Connor Byrne, of Bethesda, Md.; B.A. Loyola College, 1983.

Elizabeth Anderson Calia, of Columbia, Md.; M.S. University of Maryland, 1976.

Victoria Carlson, of Havre de Grace, Md.; B.S. Towson State University, 1985.

Timothy Joseph Carr, of Ellicott City, Md.; J.D. University of Baltimore, 1973.

Robin Marie Carter, of Pasadena, Md.; A.A. Community College of Baltimore, 1980; B.A. University of Baltimore, 1984.

Robert Allen Chaney, of Columbia, Md.; B.S. Park College, 1985.

Shirley F. Chapman, of Columbia, Md.; B.S. Coppin State College, 1982.

Delores Cloud, of Baltimore, Md.; B.S. Towson State University, 1982.

Ellen Zelinsky Cohill, of Timonium, Md.; B.S. Towson State University, 1981.

Dorothy McGhee Craig, of Columbia, Md.; B.S. Stillman College, 1969.

John Stuart Crooks, of Wheaton, Md.; B.B.A. James Madison University, 1980.

David C. Czarnecki, of Silver Spring, Md.; B.S. Pennsylvania State University, 1972; M.S. 1974.

Abigail Ann Damesyn, of Ponte Vedra, Fla.; B.S. Towson State University, 1981.

Ann Daniel-Mooney, of Abingdon, Md.; B.A. University of Guam, 1978.

Pamela deMent, of Baltimore, Md.; B.S. University of Delaware, 1981.

Veronica Maria Destitio, of Baltimore, Md.; B.A. Western Maryland College, 1982.

Robert Arnold Deyo, of Catonsville, Md.; B.A. The Johns Hopkins University, 1969.

Emmanuel Nikolaos Diakomanolis, of Baltimore, Md.; B.S. University of Maryland, 1978.

Michael Edward Diamond, of Columbia, Md.; B.S. Syracuse University, 1976.

Gilda A. Rogers Dorsey, of Baltimore, Md.; B.S. Coppin State College, 1981.

Barbara Ann Dowger, of Baltimore, Md.; B.A. Lycoming College, 1983.

Remi Anne Drigan, of Lutherville, Md.; B.S. University of Richmond, 1983.

Joseph Gabriel Duklewski, of Catonsville, Md.; B.S. University of Baltimore, 1974.

Samuel Duklewski, of Columbia, Md.; B.S. Towson State University, 1977.

Joan E. Dwyer, of Baltimore, Md.; B.S.N. The Johns Hopkins University, 1984.

Scott Philip Eberly, of Baltimore, Md.; B.S.E. Pennsylvania State University, 1979.

Christopher Wheatley Edwards, of Washington, D.C.; B.A. Western Maryland College, 1977.

Elizabeth Shepherdson Ellis, of Baltimore, Md.; B.S. Ithaca College, 1978.

Dolores Diane Emory, of Reston, Va.; B.A. College of Notre Dame of Maryland, 1982.

Kathleen Joyce Eyer, of Alexandria, Va.; B.S. Bloomsburg State College, 1968.

Heschel A. Falek, of Columbia, Md.; B.A. Newark State College, 1978.

Doreen Cynthia Fell, of Columbia, Md.; B.S. Towson State University, 1977. (Posthumously)

David Mark Finkelstein, of Baltimore, Md.; B.S. Ner Israel Rabbinical College, 1983.

James Craig Fitzgerald, of Baltimore, Md.; B.A. Loyola College, 1973.

Erin Marie Fitzsimmons, of Columbia, Md.; B.A. American University, 1979.

Robert G. Forbes, of Westminster, Md.; B.A. University of Baltimore, 1983.

Tracey Henson Ford, of Baltimore, Md.; B.A. University of Virginia, 1978.

Robin Alston France, of Baltimore, Md.; B.S. Morgan State University, 1979.

Michele A. Francesca, of Baltimore, Md.; B.A. University of Maryland Baltimore County, 1983.

Richard Gadol, of Alexandria, Va.; B.A. New York University, 1976.

Robert M. Garst, of Reisterstown, Md.; B.A. Columbia University, 1980.

Helen Martha Gasper, of Lanham, Md.; B.S. Iowa State University, 1973.

John Joseph Giffels, of Baltimore, Md.; B.A. Olivet College, 1979.

Sandra Dianne Gove, of Clarksville, Md.; B.S. Boston University, 1966.

Jorge Alberto Goytisolo, of Timonium, Md.; M.A. Georgetown University, 1982.

Jacqueline D. Gray, of Randallstown, Md.; B.S. Coppin State College, 1983.

Sandra Lenora Garziano, of Baltimore, Md.; Ph.D. The Johns Hopkins University, 1973.

Steven Lee Green, of Seabrook, Md.; B.A. Pomona College, 1982.

Raymond John Greenwald, II, of Baltimore, Md.; B.S. Indiana University of Pennsylvania, 1970; B.S. Indiana University of Pennsylvania, 1975.

Andrea Cecelia Greybush-Mangroo, of Honolulu, Hawaii; B.A. Wilkes College, 1980.

Eric Fritz Griesinger, of Baltimore, Md.; B.S. University of Delaware, 1981.

Thomas Gerald Grzymski, of Baltimore, Md.; B.A. Loyola College, 1977.

Maria Tonia Hadzaman, of Baltimore, Md.; B.S.N. University of Maryland at Baltimore, 1983.

Mitchell Lee Harris, of Pasadena, Md.; B.S.E. The Johns Hopkins University, 1982.

John Mark Hart, of Baltimore, Md.; B.S. Randolph-Macon College, 1979.

Ada Dorian Haunschild, of Elkridge, Md.; M.A. University of California, 1976.

Yung-Chang Ho, of Towson, Md.; B.A. University of North Carolina at Chapel Hill, 1980.

John Edward Hoganson, of Baltimore, Md.; B.M.E. University of Delaware, 1980.

Patricia Lynn Hopkins, of Pasadena, Md.; B.A. University of Maryland Baltimore County, 1979.

Rebecca Horvath, of Ellicott City, Md.; B.A. Salem College, 1974.

Joanne Nedzbala Hough, of Columbia, Md.; B.S. St. John's University, 1969.

Susan House, of Timonium, Md.; B.A. California State College at Long Beach, 1969.

Marnita Ann Howard, of Annapolis, Md.; B.S. Towson State University, 1982.

Jenny Hung, of Upland, Calif.; B.A. University of California at Riverside, 1983.

John Richard Hussar, of Baltimore, Md.; B.A. Loyola College, 1981.

James M. Hutto, of Ellicott City, Md. B.S. University of Maryland, 1978.

Grant Lewis Jacks, of Baltimore, Md.; B.A. Washington College, 1979.

Karen Colbert Jackson, of Baltimore, Md.; B.S. Hampton Institute, 1978.

Rhonda Jean Jackson, of Pikesville, Md.; B.S. Coppin State College, 1980.

Marc Jay Jacobson, of Arnold, Md.; B.S. United States Military Academy, 1977.

Edward Francis Jakubiak, of Bel Air, Md.; B.S.I.E. Virginia Polytechnic Institute and State University, 1983.

Marilyn Laverne Johnson, of Mitchellville, Md.; B.A. American University, 1972.

Patricia H. Johnson, of Baltimore, Md.; B.S. Towson State University, 1981.

Wayne Calvin Jones, of Columbia, Md.; B.A. University of Maryland, 1982.

Carol Liebenstein Jordan, of Baltimore, Md.; B.A. University of Colorado, 1981.

Jeffrey S. Joy, of Pittsburgh, Pa. B.S. Indiana University of Pennsylvania, 1984.

Bruce R. Kale, of Perry Hall, Md.; D.D.S. University of Maryland, 1974.

John Edward Kelly, of Ellicott City, Md.; B.S. University of Maryland, 1975.

Maureen Kelly, of Columbia, Md.

Michael J. Kemper, of Timonium, Md.; B.S. Towson State University, 1976.

Patricia Kerry King, of Glen Burnie, Md.; B.S. University of Maryland, 1979.

John Franklin Kinnaman, of Laurel, Md.; B.S.I.E. Purdue University, 1982.

Mary Katherine Kisseberth, of Baltimore, Md.; University of Maryland, 1966.

Cynthia Leigh Klapproth, of Ellicott City, Md.; B.S. Shepherd College, 1979.

Paul Anthony Klier, of Timonium, Md.; B.A. Loyola College, 1977.

Rudy Glenn Koch, of Jackson, Ala.; B.S. University of Alabama, 1982.

Victoria Sophia Kosmides, of Baltimore, Md.; B.S. Towson State University, 1978.

William Gene Krause, of Baltimore, Md.; B.A. University of Maryland, 1984.

Rose M. Laird, of Silver Spring, Md.; B.S. University of Maryland, 1983.

Catherine Margaret Larash, of Crofton, Md.; B.S.N. University of Maryland, 1981.

Anna Coatsworth Larkin, of Easton, Md.; B.A. Hollins College, 1965.

Joyceann Latino, of Baltimore, Md.; B.A. Roosevelt University, 1984.

Gabriella Wan Lau, of Columbia, Md.; B.S. University of Maryland, 1981

David S. Leckrone, of Columbia, Md.; Ph.D. University of California at Los Angeles, 1969.

Theresa A. Leister, of Baltimore, Md.; B.S. The Johns Hopkins University, 1985.

Edwin Michael Lewis, of Ellicott City, Md.; M.S. University of Maryland, 1984.

Rachel Lewis, of Rockdale, Md.; B.S. Towson State University, 1981.

Adam Alexander Lisiewicz, of Baltimore, Md.; B.S. University of Montreal, 1968; M.S. McGill University, 1972.

Keith Howard Litrenta, of Columbia, Md.; B.S. Mt. St. Mary's College, 1979.

William Lee Lock, of Bel Air, Md.; B.S. Towson State University, 1979.

Cecil MacCannon, of Hanover, Md.; B.S. University of Maryland, 1981.

Christine Lee MacDonald, of Baltimore, Md.; B.S. Western Michigan University, 1981.

Susan L. Magsamen, of Cockeysville, Md.; B.S. Towson State University, 1979.

Leonard Andrew Maisel, of Manassas, Va.; B.S. Regents College of the State of New York, 1985.

Jody Malcolm, of Columbia, Md.; M.S.W. University of Maryland at Baltimore, 1982.

John Kenneth Masterson, of Columbia, Md.; B.S. University of Maryland, 1983.

Derek Steven Matheson, of Baltimore, Md.; B.S. University of Capetown, South Africa, 1981.

Dorien Olsen Mathias, of Columbia, Md.; B.S. Pennsylvania State University, 1981.

Kent Ward Mathias, of Columbia, Md.; B.A. Youngstown State University, 1982.

Kathryn Ann May, of Lutherville, Md.; B.S. Towson State University, 1981.

Elizabeth Kling Mayotte, of Columbia, Md.; B.A. University of Cincinnati, 1971.

Gary McClain, of Jessup, Md.; B.S.E. Carnegie-Mellon University, 1982.

Timothy John McCormick, of Columbia, Md.; B.A. Catholic University, 1977.

Sharon McFadden, of Columbia, Md.; B.S. George Mason University, 1981.

Christopher Andrew McGee, of Baltimore, Md.; B.A. Antioch University, 1984.

Dina Fazio McGee, of Baltimore, Md.; B.A. Goucher College, 1983.

Mark Thomas Mercer, of Baltimore, Md.; B.A. University of Delaware, 1980.

Neil Martin Middleton, of Baltimore, Md.; B.S. University of Maryland, 1982.

Alice M. L. Miller, of Timonium, Md.; M.Ed. Towson State University, 1982.

Susan Carol Miller, of Baltimore, Md.; B.S. University of Maryland, 1978.

Patricia Eileen Moloney, of Baltimore, Md.; B.S. Towson State University, 1981.

Milda Primrose Monteith, of Baltimore, Md.; B.S.N. University of Maryland, 1980.

Robert N. Morgan, of Redmond, Wash.; B.S. Miami University, 1981.

Cathy L. Morse, of Baltimore, Md.; B.S. Towson State University, 1980.

Glenn Lewis Moyer, of Baltimore, Md.; B.S. Towson State University, 1983.

Delena Ann Woods Murphy, of Bloomington, Ind.; B.A. Indiana University, 1975.

Ernestine White Murray, of Columbia, Md.; B.S.N. Towson State University, 1980.

Crystal Virginia Myers, of Towson, Md.; B.A. Houghton College, 1982.

Amelia Naccarto-Coleman, of Baltimore, Md.; B.A. West Virginia University, 1972, B.S. The Johns Hopkins School of Health Services, 1975.

John E. Neiswender, of Sykesville, Md.; B.S. University of Delaware, 1978.

Ellen D. Nesheim, of Washington, D.C.; B.A. Cornell University, 1956.

Eugene Edward Newman, of Baltimore, Md.; B.E. Vanderbilt University, 1977.

Frances Spalding Noltemeyer, of Baltimore, Md.; B.A. Spalding College, 1977.

Donna Leonard Norman, of Severna Park, Md.; B.A. Antioch College, 1977.

Patricia Nowakowski, of Annapolis, Md.; B.S. Towson State University, 1978.

Sarah Ann Nutty, of Baltimore, Md.; B.A. University of Kansas, 1980.

Robert Eugene O'Neal, of Fallston, Md.; B.S. Towson State University, 1979.

John Brian Pabst, of Ruxton, Md.; B.A. Syracuse University, 1976.

Mark S. Paese, of Silver Spring, Md.; B.S. University of Pittsburgh, 1982.

Steven Mark Pakulski, of Baltimore, Md.; B.E.T. University of Toledo, 1983.

Uday L. Patel, of Catonsville, Md.; B.A. University of Maryland, 1979.

Joseph Jerry Pavlovsky, III, of Ellicott City, Md.; B.S. University of Maryland, 1972.

Carolyn Peterkin, of Baltimore, Md.; B.A. Goucher College, 1981.

Kathryn Peters, of Baltimore, Md.; B.S. Roanoke College, 1978.

Thomas Andrew Platt, of Owings Mills, Md.; B.S. University of Maryland, 1980.

James Grayson Ponder, of Baltimore, Md.; B.Arch. University of Cincinnati, 1976.

John Howard Propst, Jr., of Baltimore, Md.; B.S. The Johns Hopkins University, 1982.

Paul Michael Quick, of Columbia, Md.; B.C.E. University of Delaware, 1972.

Michael Everett Rabb, of Enfield, Conn.; B.S. University of Connecticut, 1983.

Miriam M. Font Ralston, of Baltimore, Md.; B.B.A. Marymount College, 1979.

Charles William Rapp, Jr.; B.A. University of Maryland Baltimore County, 1981.

Robert A. Raubach, of Lutherville, Md.; B.S. Towson State University, 1976.

Brenda Gael Reckley, of Towson, Md.; B.A. Goucher College, 1975.

Cavan Michael Redmond, of Gaithersburg, Md.; B.A. University of Maryland, 1983.

Patricia Strader Reed, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1978; M.A. University of New Haven, 1980.

Kathleen Sanders Reif, of Baltimore, Md.; B.A. Mt. St. Agnes College, 1970; M.L.S. University of Maryland, 1975.

Robert Keith Richardson, of Baltimore, Md.; B.S. Towson State University, 1981.

Nancy Lee Riches, of Silver Spring, Md.; M.E. University of North Carolina, 1974.

Miriam Woodworth Ricketts, of Santa Cruz, Calif.; B.A. Dartmouth College, 1983.

James Franklin Riley, of Bowie, Md.; B.S. Towson State University, 1978.

Robert L. Rineer, of Baltimore, Md.; B.B.A. University of Massachusetts, 1974.

Virginia Ann Roach, of Alexandria, Va.; B.A. Michigan State University, 1983.

Michael John Robertazzi, of Laurel, Md.; B.S. University of Maryland, 1984.

James R. Robinson, of Asheville, N.C.; M.S.S.W. University of Louisville, 1983.

Mary P. Roddy, of Potomac, Md.; B.S. Seton Hill College, 1979.

David Alberto Rodriguez, of Mt. Dora, Fla.; B.S. Florida State University, 1978.

Beryl Joel Rosenstein, of Baltimore, Md.; B.A. Boston University, 1957.

Carl L. Rubin, of Baltimore, Md.; B.A. George Washington University, 1974.

Donna Sue Ryan, of Severna Park, Md.; B.A. University of Maryland, 1981.

Kevin Francis Ryan, of Severna Park, Md.; B.A. The Johns Hopkins University, 1976; B.S.E., 1981.

Julia M. Sandifer, of Baltimore, Md.; B.S. University of Maryland, 1981.

Stuart Fairfax Sands, of Baltimore, Md.; B.A. University of Maryland, 1974.

Leslie B. Santacroce, of Gambrills, Md.; B.A. Georgetown University, 1975.

Jan Bernhardt Schein, of Baltimore, Md.; B.A. Franklin and Marshall College, 1977.

Steve Schlam, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1985.

Steven Schofield, of Silver Spring, Md.; B.A. University of Maryland, 1981.

Howard Lee Schwartz, of Reisterstown, Md.; B.S. Towson State University, 1982.

Charles B. Scully, of Baltimore, Md.; B.A. State University of New York at Albany, 1980.

Nancy Joanne Sears, of Columbia, Md.; B.A. University of Maryland Baltimore County, 1983.

Carol Sedlock-Sommers, of Columbia, Md.; B.S. University of South Carolina, 1983.

Katherine Miller Sellers, of Baltimore, Md.; M.A. University of Maryland, 1977.

Hubert Maurice Sharps, of North Brentwood, Md.; B.S. University of Maryland, 1983.

Barbara Lowry Shoemaker, of Columbia, Md.; B.A. West Chester State College, 1977.

Therese N. Sides, of Laurel, Md.; B.A. Towson State University, 1982.

Mitchell Shmagin, of Columbia, Md.; B.A. Queens College, 1981.

Sandra Brown Sidlovsky, of Westminster, Md.; B.A. University of Maryland, 1978.

Lawrence Paul Siegel, of Reisterstown, Md.; B.S. Northeastern University, 1978.

Sherry Ann Simms, of Joppa, Md.; B.S. Towson State University, 1981.

Patricia Breslin Singer, of Phoenix, Md.; B.S. West Virginia University, 1979.

Nancy Christine Skoczynski, of Baltimore, Md.; B.M. Peabody Conservatory of Music, 1980.

Jeffrey James Smith, of Cockeysville, Md.; B.S. Towson State University, 1983.

Kathleen Marie Smith, of Baltimore, Md.; B.A. University of Maryland, 1984.

Leslie Jean Smith, of Ellicott City, Md.; B.B.A. James Madison University, 1980.

Debra Lease Stafford, of Elkridge, Md.; B.A. Gettysburg College, 1983.

Ingrid Elizabeth Staudinger, of Rockville, Md.; B.S. Towson State University, 1982.

MaryEllen FitzGerald Stier, of Columbia, Md.; M.Ed. Tufts University, 1978.

Deirdre Ellis Stokes, of Baltimore, Md.; B.S.N. University of Maryland, 1979.

Robert Charles Strahl, of Columbia, Md.; D.D.S. University of Maryland at Baltimore, 1978.

Lane Szot, of San Diego, Calif.; B.S.W. Salisbury State College, 1980.

Kenneth Taylor, of Carmichael, Calif.; M.A. California State University, 1976.

Carl Irvin Thistel, of Baltimore, Md.; M.S.W. University of Maryland School of Social Work, 1965.

Glen William Thomas, of Pasadena, Md.; B.A. Rutgers University, 1974.

Barry William Tobias, of Abingdon, Md.; B.S. Lebanon Valley College, 1982.

Susan Brendel Tomlin, of Edgewood, Md.; B.S. Towson State University, 1982.

Dan Edward Tourgee, of Reisterstown, Md.; B.S. Drexel University, 1979.

Jacquelyn Lee Townes, of New Carrollton, Md.; B.A. University of Maryland, 1980.

Jane Elizabeth Trust, of Baltimore, Md.; B.A. Dartmouth College, 1984.

Ellis Love Turner, of Lutherville, Md.; B.S. United States Naval Academy, 1960; B.S.E. The Johns Hopkins University, 1977.

Martin Van Deise, of Reisterstown, Md.; B.S. University of Maryland, 1982.

Mary Adrian Vansickel, of Baltimore, Md.; B.S. Salisbury State College, 1973.

Gustavo A. Vazquez, of Port Washington, N.Y.; B.S. University of Florida, 1973.

James Veres, of Germantown, Md.; B.S. University of Steubenville, 1982.

Kathleen Cottingham Vyrostek, of Columbia, Md.; B.S. Iowa State University, 1973.

Thomas Allyn Vyrostek, of Columbia, Md.; M.S. Iowa State University, 1974.

Jeffrey James Wagner, of Baltimore, Md.; B.A. State University of New York at Buffalo, 1981.

Barbara Ann Walters, of Crofton, Md.; B.A. University of Maryland, 1976.

Anthony Andrew Ward, of Perry Hall, Md.; B.S.E. The Johns Hopkins University, 1969.

Nancy Marie Warner, of Baltimore, Md.; B.A. Western Maryland Colege, 1975.

Debra Carol Watkins, of Baltimore, Md.; B.S. Towson State University, 1974.

Catherine Jean Weller, of Baltimore, Md.; B.S. Colorado State University, 1982.

Annmarie Louisa Wells, of Baltimore, Md.; B.S. Towson State University, 1982.

Gordon Rg Werkema, of Seattle, Wash.; B.A. Seattle Pacific University, 1980.

Charisse Fenari Wernecke, of Proenix, Md.; B.A. Loyola College, 1978.

Joseph Wesolowski, of Baltimore, Md.; B.A. Loyola College, 1979.

Sharon Gail Williams, of Cockeysville, Md.; B.S.W. Indiana University, 1977.

Carol S. Wilson, of Columbia, Md.; B.S. University of Maryland Baltimore County, 1980.

Jeanne Trueschler Windsor, of Lutherville, Md.; B.A. College of Notre Dame of Maryland, 1981.

John Zachariah Windsor, Jr., of Lutherville, Md.; B.A. Loyola College, 1982.

Ronnie Lee Wine, of Hanover, Pa.; B.E.E.T. Ohio Institute of Technology, 1980.

Lorena Belen Wishard, of Kensington, Md.; B.S. St. Mary's College, 1984.

Faith Lisa Wolf, of Baltimore, Md.; B.A. Mount Holyoke College, 1976.

Mary Bruchac Wolf, of Kingsville, Md.; B.S. Immaculata College, 1971.

Lois Marie Woodson, of Upper Marlboro, Md.; B.S. Strager College, 1975.

Jeanine Marie Worden, of New York, N.Y.; M.A. Middlebury College, 1977.

Laurence Arthur Wright, of West Laurel, Md.; J.D. American University School of Law, 1962.

Pamela Brant Wright, of Baltimore, Md.; B.S. Michigan State University, 1973.

George William Yankosky, of Owings Mills, Md.; A.E.E. Pennsylvania State University, 1970, B.E.E. The Johns Hopkins University, 1985.

David Duane Zaleski, of Baltimore, Md.; B.S. University of Maryland, 1983.

Rhilla Louise Zebrook, of Glen Burnie, Md.; B.S. Salisbury State College, 1973; M.Ed., 1976.

Liza Jane Zopp, of Reisterstown, Md.; B.S.N. Towson State University, 1985.

Laura Mary Zukowski, of Hollis, N.H., B.A. University of New Hampshire, 1982.

CERTIFICATES OF ADVANCED STUDY

in The School of Continuing Studies

Brian David Aldrich, of Geln Burnie, Md.; B.A. University of Maryland, 1981.

Diane Marie Braxton, of White Hall, Md.; B.S. University of Maryland, 1971.

Jane Pengelly Brigman, of West Chester, Pa.; M.Ed. West Chester University, 1984.

David E. Cove, of Annapolis, Md.; B.A. New Mexico State University, 1974; M.A. Central Michigan University, 1978.

Latika Deshpande, of Ellicott City, Md.; M.S. Syracuse University, 1974.

Jeanne Mitchell Ford, of Crownsville, Md.; B.S. Central State University, 1972; M.S. The Johns Hopkins University, 1978.

Wanda Joyce Grant, of Jamaica, N.Y.; B.S. Northeastern University, 1975; M.Ed., 1978.

August G. Lageman, of Timonium, Md.; B.A. Loyola College, 1971; M.A. St. Marys' Seminary and University, 1975.

Carolyn Kennett Leckrone, of Columbia, Md.; B.S. Southeast Missouri State College, 1965.

Sarah Macklin, of Randallstown, Md.; B.A. Trenton State University, 1975.

Thomas Michael McLernon, of Baltimore, Md.; B.A. Mt. St. Mary's College, 1953.

Judith Ann Morreels, of York, Pa.; M.S. University of Maryland, 1962.

Thomas Dixon Murray, of Baltimore, Md.; M.S. Towson State University, 1975.

Robert Harold Neuman, of Rockville, Md.; B.A. University of Maryland, 1972.

Jay Joseph Popowicz, of Baltimore, Md.; B.A. The Johns Hopkins University, 1976; M.L.A., 1982.

Sharon Louise Simpkins, of Baltimore, Md.; B.S. Towson State University, 1972.

Rebecca Helene Thune, of Joppa, Md.; M.Ed. Loyola College, 1976.

Susan Jane Vaeth, of Baltimore, Md.; B.S. Towson State University, 1980.

Kathy O'Donnell Volk, of Timonium, Md.; M.Ed. Towson State University, 1980.

Nancy Margaret Vorobey, of Washington, D.C.; M.A. George Washington University, 1979.

Barbara Lynn Wurster, of Fallston, Md.; B.A. Muhlenberg College, 1972; M.Ed. Loyola College, 1978.

MASTERS OF MUSIC

in The Peabody Conservatory of Music

Celia Ivette Amstutz, of Petersburg, Va.; B.M. Oberlin Conservatory of Music, 1983; M.M. University of Maryland, 1985. Organ.

Elizabeth Lang Anderson, of Lancaster, Pa.; B.A. Gettysburg, College, 1982. Composition.

David Bahanovich, of Amherst, N.Y.; B.M. Peabody Conservatory of Music, 1986. Violoncello.

Svetlana Belsky, of Skokie, Ill.; B.M. Peabody Conservatory of Music, 1986. Piano.

David Eric Bjella, of Cedar Rapids, Iowa; B.M. Drake University, 1985. Violoncello.

Barteld Douwe Bosma, of Arnhem, The Netherlands; akte B. Arnhem Conservatory of Music, 1984. Guitar.

Carol Cavey-Dowling, of Baltimore, Md.; B.A. University of Maryland, 1974; B.M. Peabody Conservatory of Music, 1984. Voice.

Cecilia Chinsoon Cho, of Baltimore, Md.; B.M. Peabody Conservatory of Music, 1985. Piano.

Jeongseon Choi, of Seoul, Korea; B.M. New England Conservatory of Music, 1985. Piano.

Andrew Colton, of Brookline, Mass.; B.A. Dartmouth College, 1984, Conducting.

John E. Conte, of Convent Station, N.J.; B.M. Peabody Conservatory of Music, 1985. Piano.

Eric Arthur Conway, of Randallstown, Md.; B.M. Peabody Conservatory of Music, 1985. Piano.

Lu Ann Davis, of Baltimore, Md.; B.M. Peabody Conservatory of Music, 1983. Flute.

Alfred C. Duckett, Jr., of Fountain Inn, S.C.; B.M. North Carolina School of the Arts, 1986. Conducting.

Cyrus Ginwala, of Belmont, Mass.; B.M. Boston University, 1984. Conducting.

Katharine E. Gossman, of Ft. Walton Beach, Fla.; B.M. Peabody Conservatory of Music, 1985. Piano.

Mary Catherine Hamilton, of West Seneca, N.Y.; B.M. Oberlin Conservatory of Music, 1985. Viola.

Haran Ron, of Jerusalem, Israel; B.M. Jerusalem Academy of Music, 1985. Piano.

Mary A. Harrison, of Lexington, Ky.; B.M. Peabody Conservatory of Music, 1984. Conducting.

Peter Hollerbach, of Virginia Beach, Va.; B.M. Wayne State University, 1980. Music History.

Karen Lynn Kalivoda, of Detroit, Mich.; B.M.E. Central Michigan University, 1981. Flute.

Kang Jung-Eun of Seoul, Korea; B.M. Peabody Conservatory of Music, 1984. Violoncello.

Fred S. Karpoff, of Euclid, Ohio; B.M. Northwestern University, 1985. Piano.

Cynthia Katsarelis, of Triangle, Va.; B.M. Peabody Conservatory of Music, 1985. Conducting.

Bok Hwa Kim, of Memphis, Tenn.; B.M. Peabody Conservatory of Music, 1982; M.M. Juilliard School, 1985. Piano.

Kenneth L. Krehbiel, II, of Moundridge, Kan.; B.S. University of Kansas, 1976. Music Criticism.

James Charles Lange, of Charleston, W.Va.; B.A. West Liberty State College, 1980. Guitar.

Juan Carlos Lastra de León, of Rio Piedras, Puerto Rico; B.M. Peabody Conservatory of Music, 1983. Guitar.

Yun He Lee, of Seoul, Korea; B.M. Peabody Conservatory of Music, 1985. Piano.

Susan Lynn Lemei, of Coronado, Calif.; B.M. University of the Pacific, 1980. Music Criticism.

Ma-Li Lin, of Taipei, Taiwan, R.O.C.; B.A. Chinese Culture University, 1982. Piano.

Timothy John Mangan, of Healdsburg, Calif.; B.M. University of Southern California, 1982. Music Criticism.

Lucy Marie Mauro, of Williamsport, Pa.; B.M. Peabody Conservatory of Music, 1986. Piano.

Deirdre Elizabeth McClure, of Chicago, Ill.; B.A. Macalester College, 1985. Conducting.

Robin Lynn McClurg, of Omaha, Neb.; B.M. University of Nebraska at Omaha, 1985. Clarinet.

Mark Dozier Mobley, of Atlanta, Ga.; B.M. Florida State University, 1985. Music Criticism.

Suzanne Elaine Mobley, of Cecil, Ohio; B.M. Baldwin-Wallace Conservatory of Music, 1983. Piano.

Charlotte Valeria Monroe, of Detroit, Mich.; B.A. Youngstown State University, 1985. Voice.

Carolyn Marie Mooz, of Cupertino, Calif. Viola.

J. David Oliver, of Baltimore, Md.; B.M. Baylor University, 1984. Piano.

Lauren Susan Oppenheim, of San Antonio, Texas; B.M. Trinity University, 1985. Piano.

Jonathan Leigh Parrish, of Lynchburg, Va.; B.M. James Madison University, 1984. Horn.

Eric David Peterson, of McLean, Va.; B.A. College of William and Mary, 1985. Horn.

Michael Robert Pos, of Toronto, Ontario, Canada; B.M. Peabody Conservatory of Music, 1985. Composition.

Michael John Pryor, of Wilkes-Barre, Pa.; B.M. Wilkes College, 1984. Saxophone.

John Andrew Ravnan, of Madison, Wis.; B.M. Eastman School of Music, 1985. Viola.

Susan Ann Saito, of Baltimore, Md.; B.A. Goucher College, 1980. Gutiar.

Robert Scott Satterlee, of Whitefish, Mont.; B.M. University of Missouri Kansas City, 1985. Piano.

Mishel Seidel, of Baltimore, Md.; B.A. The Johns Hopkins University, 1936; Teacher's Certificate, B.M. Peabody Conservatory of Music, 1938. Piano. (Degree Conferred July 15, 1986)

Daniel Shapiro, of Corona del Mar, Calif.; B.M. University of Southern California, 1984. Piano.

Karen Lynn Small, of Wilmington, Del.; B.M. Peabody Conservatory of Music, 1986. Flute.

Ivan John Smith, of Rockville, Md.; A.R.C.M. Royal College of Music, London, 1968. Violin.

David Lowell Solem, of Greenbelt, Md.; B.M. Peabody Conservatory of Music, 1984. Piano.

Giocille Marie Terenzio, of Stamford, Conn.; B.M. Peabody Conservatory of Music, 1985. Piano.

Bo Alexander Veistrup, of Copenhagen, Denmark; B.M. Royal Danish Academy of Music, 1983. Piano.

Dana Michele Goode Veistrup, of Dallas, Texas; B.M. Peabody Conservatory of Music, 1982. Violin.

Harcourt Edmund Waller, III, of Savannah, Ga.; B.M. St. Andrews Presbyterian College, 1975. Piano.

Julius R. Wirth, of Lakeland, Fla.; B.M. Eastman School of Music, 1985. Viola.

Gloria Man Wai Wong, of Victoria, British Columbia, Canada; B.M. University of Victoria, 1985. Piano.

Diwei Wu, of Shanghai, China; B.M. Oberlin Conservatory of Music, 1985. Piano.

Alice Elizabeth Young, of Sheffield, England; Diploma Royal Scottish Academy of Music and Drama, 1985. Viola.

Diane Lynn Zubrzycki, of Pennsauken, N.J.; B.M. Temple University, 1982. Conducting.

ARTIST DIPLOMAS

in The Peabody Conservatory of Music

William Beynon Feasley, of Pullman, Wash.; Diploma Estudio de Arte Guitarristico, 1978; M.M. Peabody Conservatory of Music, 1983. Guitar.

Margaret Ellen Genovese, of Olney, Md.; B.M. Peabody Conservatory of Music, 1983. Voice.

Michelle Marie LaCourse, of Williamsburg, Mich.; B.M. Peabody Conservatory of Music, 1982; M.M. 1983. Viola.

MASTERS OF SCIENCE

in The School of Hygiene and Public Health

Floria Alvarez, of Baltimore, Md.; B.S.C. University of Costa Rica, 1978. Immunology and Infectious Diseases.

Immunochemical Analysis of the Reactivity of Heart-Specific Antibodies with Heart and Skeletal Muscle Antigens.

Susan Gail Krantz, of San Francisco, Calif.; B.S. State University of New York at Albany, 1983. Population Dynamics.

A Study of Time Trends in Risk Factors and Clinical Outcome of Ectopic Pregnancy at The Johns Hopkins Hospital.

Brenda Jayne Kustin, of Wellesley, Mass.; B.S. University of Massachusetts, 1981. Behavioral Sciences and Health Education.

Knowledge, Attitude and Practice in Diabetes Patient Education: A Needs Assessment of Nurses in Baltimore, Maryland.

Patricio Marquez, of Santiago, Chile; B.A. George Washington University, 1981. Health Policy and Management.

Coordination Between Ministries of Health and Social Security Institution: An Analytic Study of Costa Rica, Honduras and Nicaragua.

Amelia W. Maters, of Hampstead, Md.; B.S. James Madison University, 1976. Immunology and Infectious Diseases.

Detection of Cytomegalovirus in Lung Tissue by In Situ *Hybridization: A Comparison of Cytopathologic Antigen Detection and Tissue Culture Results.*

Deborah F. Michelman, of Lexington, Mass.; B.A. Vassar College, 1983. Behavioral Sciences and Health Education.

Pediatricians' Attitudes and Behaviors Regarding Infant Feeding Practices.

Paula Jean Nawrocki, of Dudley, Mass.; B.A. St. Michael's College, 1979. Immunology and Infectious Diseases.

Immune Function and Susceptibility to Trypanosoma cruzi *in BXH-2 Mice.*

MASTERS OF HEALTH SCIENCE

in The School of Hygiene and Public Health

Moustafa Ali Moustafa Awad, of Jeddah, Saudi Arabia; B.Sc. King Abdulaziz University, 1981. Environmental Health Sciences, Occupational Safety and Health.

Pamela Laurence Bolton, of Montclair, N.J.; B.A. Wesleyan University, 1982. Maternal and Child Health.

David J. Braitman, of Brooklyn, N.Y.; B.A. Hunter College, 1970; M.S. University of Connecticut, 1974; Ph.D., 1976. Environmental Health Sciences.

Jayne Elizabeth Burke, of Albany, N.Y.; B.A. Syracuse University, 1985. Health Policy and Management, Health Finance and Management.

Peggy Jeanine Fairchild, of Milwaukee, Wis.; B.A. University of Wisconsin, 1982. International Health.

Sholeh Foroutan, of San Bernardino, Calif.; B.A. George Washington University, 1981; M.A. Northwestern University, 1984. International Health.

Donna Lynn Frank, of Arlington, Va.; B.A. Occidental College, 1979. Maternal and Child Health.

Kyungeun Han, of Columbia, Md.; B.A. Wellesley College, 1985. Health Policy and Management, Health Finance and Management.

Christoph V. Haug, of the Federal Republic of Germany; M.A. Universitate Augsburg, 1984. Mental Hygiene.

Tami Kit Ito, of Oak Lawn, Ill.; B.A. St. Mary's College, 1981. Maternal and Child Health.

Nancy June Knittle, of West Chester, Pa.; B.A. University of Massachusetts, 1979. Health Policy and Management, Health Finance and Management.

Stephanie Anne Lorge, of Dubuque, Iowa; B.S. University of Iowa, 1978. Environmental Health Sciences, Occupational Safety and Health.

Hong Lu, of Beijing, China; M.B. Beijing Medical College, 1983. Population Dynamics.

Lin Luo, of Chengdu, People's Republic of China; M.D. Chongging Medical College, 1967. Population Dynamics.

Ann Mackey Lyon, of Locke, N.Y.; B.S. State University of New York at Cortland, 1980; B.A., 1980. Health Policy and Management, Health Finance and Management.

Beverly Andrea Mann, of Eastchester, N.Y.; B.S. Cornell University, 1983. Maternal and Child Health.

Elizabeth P. Mann, of New Cumberland, Pa.; B.S. University of Maryland, 1980. Health Policy and Management, Health Finance and Management.

Teri Ann Manolio, of Bethesda, Md.; B.S. University of Maryland, 1976; M.D., 1980. Epidemiology.

Katya Masnyk, of Washington, D.C.; B.A. The Johns Hopkins University, 1985. Maternal and Child Health.

Karen Jane Mason, of Baltimore, Md.; B.A. The Johns Hopkins University, 1981. Epidemiology.

Lewis Ndhlovu, of Matobo, Zimbabwe; B.Sc. Aligarh Muslim University, 1979; M.S.C., 1981 Population Dynamics.

Patricia Hart Neumann, of Baltimore, Md.; B.A. Wesleyan University, 1981. Health Policy and Management, Health Finance and Management.

Joseph John Ocken, of Colorado Springs, Colo.; B.A. University of Colorado, 1976. Environmental Health Sciences, Occupational Safety and Health.

Nancy Olson, of Hillsboro, N.H.; B.A. University of New Hampshire, 1977. International Health.

Amy Alison Plummer, of Madison, Wis.; B.S. University of Wisconsin, 1983. International Health.

Carla Sue Reinhard, of York, Pa.; B.S. Elmira College, 1982. Environmental Health Sciences.

Terri Lynn Shaffer, of Baltimore, Md.; B.A. Hood College, 1982. Maternal and Child Health.

Kamini Shah, of Clarinda, Iowa; B.A. The Johns Hopkins University, 1985. Health Policy and Management, Health Finance and Management.

Deirdre MacDonald Smith, of Baltimore, Md.; B.A. University of Vermont, 1982. Population Dynamics.

Karen Tcheyan, of Washington, D.C.; B.A. Occidental College, 1977; M.A. The Johns Hopkins University, 1980. Population Dynamics.

Dawn Thomas, of Silver Spring, Md.; B.S. University of Delaware, 1983. Health Policy and Management, Health Finance and Management.

Mark Lawrence Van Natta, of Baltimore, Md.; B.A. Towson State University, 1980. Biostatistics.

Andrew Anthony Vernon, of Atlanta, Ga.; B.A. Harvard College, 1971; M.D. Harvard Medical School, 1975. Epidemiology.

Jill Marie Vollmerhausen, of Fulton, Md.; B.S. University of Maryland, 1983. Environmental Health Sciences, Occupational Safety and Health.

Karen Warburton, of Catonsville, Md.; B.S. University of Maryland, 1979. Health Policy and Management, Health Finance and Management.

Janice Warila, of Baltimore, Md.; B.A. The Johns Hopkins University, 1983. Health Policy and Management, Health Finance and Management.

Alexa L. Wilkie, of East Sussex, England; B.A. University of Sussex, 1984. International Health.

Joseph Wiseman, of Baltimore, Md.; B.A. Kenyon College, 1976; J.D. Washington University, 1979. Environmental Health Sciences, Occupational Safety and Health.

Gregory J. Wolfe, of Severna Park, Md.; B.S. Loyola College, 1977. Environmental Health Sciences, Occupational Safety and Health.

MASTERS OF PUBLIC HEALTH

in The School of Hygiene and Public Health

Ahmed Sayed Aboraya, of Baltimore, Md.; M.B.B.Ch. University of Cairo, 1977.

Stacey Carol Adelman, of Evansville, Ind.; B.S.N. Indiana University, 1981.

Sulieman N. Al-Shahri, of Riyadh, Saudi Arabia; M.B.B.S. King Saud University, 1982.

Abubakar Abdou Al-Tobaiqi, of Jeddah, Saudi Arabia M.B.B.Ch. King Abdulaziz University, 1982.

Claudia Carola Allers, of Washington, D.C.; B.S.N. Georgetown University, 1978.

Isabel Vashti Frances Amet, of Monrovia, Liberia; B.Sc. University of Liberia, 1974; M.D., 1980.

Fawzi Abdulla Amin, of Muharraq. Bahrain; M.B.B.Ch. Cairo University, 1978.

Charles Leon Anderson, Jr.; of Williamsville, N.Y.; B.A. Princeton University, 1983.

David Richard Arday, of Bradenton, Fla.; B.S. Washington University, 1979; M.D. Case Western Reserve University, 1983.

Allyn Johanna Arnold, of Baltimore, Md.; B.S. University of Maryland. 1975.

Bernard James Arseneau, of Syracuse, N.Y.; B.A. State University of New York at Albany 1977; D.O. New York College of Osteopathic Medicine, 1985.

Barry Seth Auerbach, of Silver Spring, Md.; B.S. University of Maryland, 1979; M.D., 1983.

Mary Cashman Backlund, of South Harpswell, Maine; B.S.N. Marymount College of Virginia, 1983.

W. Edward Bacon, of Poolesville, Md.; B.S. Tufts University, 1956; M.A. Lehigh University, 1958; Ph.D. The Johns Hopkins University, 1961.

Judy M. Baker, of Washington, D.C.; B.S.N. Marymount University of Virginia, 1986.

Paul Douglas Barry, of Buffalo, N.Y.; B.A. Hamilton College, 1967; M.D. State University of New York at Buffalo, 1971.

Joan Patricia Baumbach, of Los Angeles, Calif.; B.A. University of California at Berkeley, 1982; M.S., 1985.

Peter G. Bernad, of McClean, Va; B.Sc. McGill University, 1970; M.D., 1974.

Janice Anne Bigelson, of Washington, D.C.; B.S.N. American University, 1984.

Tom-wiley Bochow, of Tyler, Texas; B.A. Baylor University, 1983.

Jeffrey R. Botkin, of Boulder, Colo.; B.A. Princeton University, 1975; M.D. University of Pittsburgh, 1979.

Rosalind Prophet Brannigan, of Arlington, Va.; B.A. Michigan State University, 1965.

Virginia Anne Brown, of Livingston, N.J.; B.S. Saint Mary's College, 1984.

Dana Brozinsky, of Baltimore, Md.; B.A. State University of New York at Stonybrook, 1980; B.S.N. Adelphi University, 1983.

Judith Ann Buckwalter, of Andover, N.Y., B.S.N. Eastern Mennonite College, 1969.

Sarah Bur, of Baltimore, Md.; B.S.N. University of Maryland, 1981.

Arlene L. Burke, of Palm Desert, Calif.; B.A. Loma Linda University, 1976; D.O. Kansas City College of Osteopathic Medicine, 1981.

Robert Orman Cannon, III, of Las Vegas, Nev.; B.S. University of Wisconsin, 1975; M.D. University of Nevada, 1981.

Cheng-Der Chen, of Monterey Park, Calif.; M.D. Chung Shan Medical College, 1982.

Chung-Kuao Chou, of Taichung, Taiwan; B.M. Kaohsiung Medical College, 1982.

Mariam Eva Claeson, of Stockholm, Sweden; B.S. Medicine Karolinska Institute at Stockholm, 1975; M.D., 1980.

Mary Edmonds Cogswell, of Baltimore, Md.; B.S. University of Vermont, 1983.

Harry Faulkner Conner, of Madison, Miss.; B.A. Princeton University, 1972; M.D. New York University School of Medicine, 1977.

Regina Cooper, of Harper, Liberia; B.Sc. University of Liberia, 1957; M.D. University of Munich, 1966.

James Michael Crutcher, of Claremore, Okla.; B.S. University of Oklahoma, 1976; M.D., 1980.

Cristina Beatrice Cunico, of Brasilia, Brazil; M.D. University of Brasilia, 1985.

Mary Margaret Currier, of Jackson, Miss.; B.A. Rice University, 1978; M.D. University of Mississippi, 1983.

John Robert Cutler, of St. Louis, Mo.; B.A. Washington University, 1974; M.D., 1980.

Merceline M. Dahl-Regis, of Nassau, Bahamas; M.B.B.S. University of the West Indies, 1974.

Christine Mary Danilowicz, of Bridgeport, Conn.; B.S.N. Fairfield University, 1979.

Bruce Lawrence Davidson, of Philadelphia, Pa.; B.A. Haverford College, 1973; M.D. Temple University, 1977.

Susan Royal Davis, of DeWitt, N.Y.; B.S. Purdue University, 1973; M.S. University of Delaware, 1977; M.D. State University of New York at Buffalo, 1981.

Drue Ellen Dawson, of Baltimore, Md.; B.A. University of Delaware, 1978; B.S.N. Towson State University, 1982.

Laurette Kathryn Dekat, of Oklahoma City, Okla.; B.A. University of Dallas, 1979; M.D. University of Texas Medical School at Houston, 1983.

Fernando Del Castillo, of Seviila, Spain; M.D. Sevilla University, 1979.

Louise Denhez, of Sherbrooke, Canada; M.D. Sherbrooke University, 1978.

Bertrand Camille Desmoulins, of Aix En Provence, France; M.D. Marseille University, 1982.

Toni Tara Durham, of Bel Air, Md.; B.S.N. University of Maryland, 1986.

Lois June Eldred, of Charleston, W.Va.; B.S. The Johns Hopkins University, 1978.

Thomas Elkas, of Montvale, N.J.; B.A. University of Pennsylvania, 1985.

Deborah Liverett Ellis, of Baltimore, Md.; B.S.N. Towson State University, 1985.

Susheela Marie Engelbrecht, of Seattle, Wash.; B.S.N. St. Olaf College, 1981.

Pedro M. Escudero, of Santiago, Chile; M.D. Universidad De Chile, 1969.

Donald Patrick Ford, of Narragansett, R.I.; B.A. Brown University, 1980; M.D., 1983.

Ellen Susan Frank, of Brooklyn, N.Y., B.A. Brooklyn College 1979; M.D. State University of New York at Downstate Medical Center, 1982.

Sixto Garcia-Minaur, of Bilbao, Spain; M.D. Universidad Del Pais Vasco, 1979.

Melville Omorlabie George, of Banjul, The Gambia; B.D.Sc. University of Western Australia, 1972.

Tawfik Mohammed A. Ghabrah, of Jeddah, Saudi Arabia; M.B.Ch.B. King Abdulaziz University, 1984.

Gregory Charles Gray, of San Diego, Calif.; B.S. United States Naval Academy, 1977; M.D. University of Alabama School of Medicine, 1983.

John Carl Graybeal, Jr., of Ellicott City, Md.; B.S. Juniata College, 1977; D.D.S. University of Maryland, 1981.

Arlene Iris Greenspan, of Brooklyn, N.Y.; B.S. State University of New York at Buffalo, 1976; M.S. The Johns Hopkins University, 1983.

Peter Mark Grysavage, of Gaithersburg, Md.; B.S.N. American University, 1979.

Anne Mackay Guthrie, of Cold Spring Harbor, N.Y.; B.A. University of Virginia, 1983.

Elizabeth Anne Hall, of Denver, Colo.; B.S. University of Wyoming, 1980.

Kamal A. Hamed, of Amman, Jordan; B.S. American University of Beirut, 1982; M.D., 1985.

Andrea E. Henderson, of Irvington, N.J.; B.S.N. Seton Hall University, 1977.

Elizabeth Jane Herman, of San Fidel, N.M.; B.A. Princeton University, 1975; M.D. University of Connecticut, 1979.

J. Henry Hershey, of Roanoke, Va.; B.S. Roanoke College, 1978; M.D. Eastern Virginia Medical School, 1982.

William L. Heyward, of Anchorage, Alaska; B.A. Emory University, 1972; M.D. Medical College of Georgia, 1976.

Bennett Hibbler, of Indianola, Miss.; B.S. Mississippi Valley State University, 1977; B.S. Tuskegee Institute, 1980; D.V.M., 1981.

Gottfried O. Hirnschall, of Vienna, Austria; M.D. University of Vienna, 1982.

Christopher Sean Holland, of Silver Spring, Md.; B.A. Assumption College, 1974; M.D. New York Medical College, 1979.

Clyde Richard Houseknecht, of Muncy, Pa.; B.A. Lyconing College, 1965; M.S. Pennsylvania State University, 1967; Ph.D. University of Minnesota, 1971.

Chuen-Chuen Joyce Huang, of Chia-Yi, Taiwan; B.S. National Taiwan University, 1982.

Beryl Yvonne Irons, of Spanish Town, Jamaica; M.B.B.S. University of the West Indies, 1979; D.M. Pediatrics University of the West Indies, 1986.

Michael S. Jacobs, of Madison, Wis.; B.A. Dartmouth College, 1968; J.D. Yale Law School, 1971.

William O. James, Jr., of Lake Charles, La.; D.V.M. Louisiana State University, 1980.

Mark Getty Jameson, of Baltimore, Md.; B.A. Allegheny College, 1975; M.D. University of Nebraska, 1983.

Catherine Whitney Janes, of Lincoln, Mass; B.S.N. Georgetown University, 1981.

Daniel Estabillo Jimenez, of Washington, D.C.; B.S. University of the Philippines, 1968; M.D. University of the East Philippines, 1973.

Camille Arnel Jones, of Detroit, Mich.; B.A. Harvard University, 1978; M.D. Case Western Reserve University, 1982.

Henry David Kalter, of Cincinnati, Ohio; B.A. Emory University, 1974; M.D. University of Cincinnati, 1981.

Sana Nayef Kawar, of Amman, Jordan; B.A. Mills College, 1983.

William David Kirsh, of Miami, Fla.; B.S. Florida State University, 1981; D.O. Southeastern College of Osteopathic Medicine, 1985.

Dwip Kitayaporn, of Bangkok, Thailand; B.Sc. Mahidol University, 1977; M.D., 1979.

Michael John Klag, of Norristown, Pa.; B.S. Juniata College, 1974; M.D. University of Pennsylvania, 1978.

Anne Lowe Knasel, of McClean, Va.; B.A. Lake Erie College, 1963; M.D. Boston University, 1968.

Ulrich Knobloch, of Lorch-Waldhausen, West Germany; M.D. University of Heidelberg, 1971.

Timothy Haochung Ko, of Taipei, Republic of China; B.S. National Taiwan University, 1982.

Kandadai A.V.R. Krishnamachari, of Andhra Pradesh, India; M.B.B.S. Andhra Medical College, 1965; M.D., 1970.

Rajalakshmi Krishnamachari of Andhra Pradesh, India; M.B.B.S. University of Madras, 1966; M.D. South Gujarat University, 1985.

Susan Lacks, of Arlington, Va.; B.A. City University of New York, 1976; M.D. Duke University, 1980.

Bernard Landry, of Greenbelt, Md.; B.S. Ohio State University, 1979.

Jean Ann Langlois, of Baltimore, Md.; B.A. University of Rhode Island, 1979; M.S. Purdue University, 1982.

Paula Lynn Larson, of Evanston, Ill.; B.S. University of Wisconsin, 1980.

M. Elizabeth Kelly Leonard, of Baltimore, Md.; B.S.N. St. Louis University, 1970.

Cheryl Lynne Lettenmaier, of Seattle, Wash.; B.S.N. University of Washington, 1978.

Ann Levin, of Framingham, Mass.; B.A. University of Rochester, 1977; M.A. American University, 1980.

Ingrid Yee Liu Lin, of Bethesda, Md.; B.A. Harvard University, 1975; M.D. Stanford Medical School, 1979.

Linda Stephanie Lloyd, of Grantham, N.H.; B.A. Colby College, 1980.

Aimee Lynn MacLea, of Baltimore, Md.; B.A. Lewis and Clark College, 1980.

Stefania Maggi, of Montichiari, Italy; M.D. University of Padova, 1983.

Nabil Fekry Megallah Malati, of Cairo, Egypt; M.D. Ain Shams University, 1978.

Mary Elizabeth Mancuso, of Springfield, Mass.; B.S. University of Massachusetts, 1980.

Audrey Forbes Manley, of Washington, D.C.; B.A. Spelman College, 1955; M.D. Meharry Medical College, 1959.

Marilyn Lydia Martin, of Petersburg, N.J.; B.A. Hartwick College, 1979; M.D. New Jersey Medical School, 1983.

Pamela Ann Mays, of Buffalo, N.Y.; B.S. Niagara University, 1978.

Donna Hubbard McCree, of LaGrange, Ga.; B.S. Howard University College of Pharmacy, 1982.

Patricia Louise McLaine, of Cleveland, Ohio; B.S.N. Case Western Reserve University, 1981.

Kathleen Marie McPhaul, of Washington, D.C.; B.S.N. University of Virginia, 1979.

Douglas Rimando Mendoza, of Baguio City, Philippines; B.S. University of Sto. Tomas at Manila, 1973; M.D., 1977.

Tigest Ketsela Mengistu, of Addis Ababa, Ethiopia; M.D. Addis Ababa University, 1983.

Eric Mercier, of Bohain, France; M.D. University of Paris, 1982.

Mohammed Abdul Hai Mian, of Dhaka, Bangladesh; M.B.B.S. Dhaka University, 1970.

Sherry Lynn Mills, of Silver Spring, Md.; B.A. Brown University, 1978; M.D. University of Cincinnati, 1984.

Melissa Marie Moncavage, of Rockville, Md.; B.A. Gettysburg College, 1975.

Leslie B. Monfred, of Baltimore, Md.; B.S.N. University of Pennsylvania, 1983.

Verba Ann Moore, of Biloxi, Miss.; B.S. Millsaps College, 1979; M.D. Tulane University, 1983.

Alfredo Morabia, of Geneva, Switzerland; M.D. University of Geneva, 1978.

Bernard Jean Moriniere, of Paris, France; M.D. Pitie Salpetriere Medical School, 1977.

Manuel Moro, of Lima, Peru; D.V.M. San Marcos University, 1985.

Makhetha Emmanuel Mosotho, of Maseru, Lesotho; B.Sc. Zambia University, 1978; M.B.Ch.B., 1981.

Eliot Nathan Mostow, of Akron, Ohio; B.S. University of Michigan, 1981; M.D. Ohio State University, 1985.

Pathmanathan Naidoo, of Durban, South Africa; B.S.C. University of Witwatersrand, 1980; M.B.Ch.B. University Natal, 1985.

Shamima Nasreen, of Dhaka, Bangladesh; M.B.B.S. Dhaka Medical College, 1984.

Carroll John Nickle, Jr., of Greeley, Colo.; D.O. Chicago College of Osteopathic Medicine, 1974.

Eric Kikuo Noji, of Baltimore, Md.; B.S. Stanford University, 1977; M.D. University of Rochester, 1981.

Mercy Obamogie Odunmbaku, of Seabrook, Md.; B.S. Columbia University, 1980; M.D. Rutgers Medical School, 1984.

Leonardo Ramon Ortega, of Caracas, Venezuela; M.D. Central University of Venezuela, 1981.

Michel Charles Pacqué, of Overijse, Belgium; M.D. Vrije Universteit Brussel, 1980.

Sara Jane Pacqué-Margolis, of Uniontown, Pa.; B.A. Wesleyan University, 1981.

Deborah Smith Page, of Washington, D.C.; B.S. Michigan State University, 1971; D.V.M., 1971.

Lisa L. Paine, of Baltimore, Md.; B.S.N. University of South Florida, 1979; M.S. University of Utah, 1982.

Kyu Pak, of Seoul, Korea; M.D. Catholic Medical College, 1983.

Michael Donald Parkinson, of Alexandria, Va.; B.A. Cornell University, 1975; M.D. George Washington University, 1979.

Linda Kay Peace, of Bozeman, Mont.; B.S.N. University of Oregon Health Sciences Center, 1977.

Lynne Teresa Penberthy, of Baltimore, Md.; B.S. University of Miami, 1976; M.D. University of Michigan, 1981.

Linda Jean Penniman, of Colchester, Vt.; B.S. University of Vermont, 1986.

Judith Lee Perry, of West Swanzey, N.H.; B.S.N. University of New Hampshire, 1978.

Maria Silvia Pompei, of Botucatu Sao Paulo, Brazil; M.D. Faculdade de Medicina de Botucatu, 1980.

Richard Craig Postlewaite, of Colorado Springs, Colo.; B.S. Colorado State University, 1974; D.V.M., 1976.

Alton W. Powell, III, of Penn Valley, Calif.; B.S. Duke University, 1978; M.D. Uniformed Services University of the Health Sciences, 1982.

Yung-Hao Pung, of Somerville, N.J.; M.D. National Taiwan University College of Medicine, 1984.

Christine Racodon, of Saint Etienne, France; M.D. University de Saint Etienne, 1978.

Michele Marie Richard, of West Springfield, Mass.; B.S.N. Boston College, 1980.

Leila Jones Richards, of Philadelphia, Pa.; B.A. Barnard College, 1969; M.D. Medical College of Pennsylvania, 1978.

Margaret Rose Robinson, of Jamaica, West Indies; M.B.B.S. University of the West Indies, 1970.

Ted J. Robinson, of Enio, Okla.; B.A. Texas Christian University, 1973; M.D. University of Oklahoma College of Medicine, 1979.

Jerry W. Rose, of Columbia, Md.; B.S. Westminster College, 1969; M.D. University of Washington at Seattle, 1977.

Nathaniel Rothman, of Milford, Conn.; B.A. Harvard College, 1979; M.D. Northwestern University, 1984.

Thomas Raymond Runyon, of Belcamp, Md.; B.S. University of South Carolina, 1977; M.S. Clemson University, 1980.

Victor Patricio Salamanca, of Arecibo, Puerto Rico; B.S. Florida State University, 1976; M.D. Ponce School of Medicine, 1983.

Amy Rose Salazar, of Baltimore, Md.; B.S.N. Duke University, 1984.

Marcel Edward Salive, of Rockville, Md.; B.S. University of Michigan, 1981; M.D., 1985.

Julia Lynn Samuelson, of Ankeny, Iowa; B.S.N. Arizona State University, 1982.

Barbara Helene Sandler, of Bowie, Md.; University of Maryland, 1977; B.S., 1979; D.D.S., 1983.

Brigitte Sonja Santos-Eggimann, of Eriswil, Switzerland; M.D. University of Geneva, 1982.

Paul A. Sato, of Dublin, Ireland; B.Sc. National University of Ireland, 1980; M.B.B.Ch., 1982.

Joseph Claude Schutt-Ainé, of Silver Spring, Md.; M.D. University of Haiti, 1963.

Julia Frances Seavello, of San Diego, Calif.; B.A. University of California at Santa Cruz, 1983.

Khadijah Shamsuddin, of Kuala Lumpur, Malaysia; M.B.B.-Ch. University of Cairo, 1981.

Seng Shen, of Tainan, Taiwan; M.D. Taipei Medical Colleg, 1970.

Robert Shesser, of Washington, D.C.; B.A. University of Rochester, 1971; M.D. University of Miami, 1976.

Kuldev Singh, of Wheaton, Md.; B.S. McGill University, 1982; M.D. The Johns Hopkins University, 1986.

Irene Sklarek, of Lorain, Ohio; B.S.N. Catholic University of America, 1980.

Tomotaka Sobue, of Osaka, Japan; M.D. Osaka University, 1983.

Diane Lynn Sondheimer, of Washington, D.C.; B.S.N. University of Maryland, 1973; M.S.N. Catholic University, 1979.

Cynthia Donaldson Steele, of Severna Park, Md.; B.S. Towson State University, 1981.

John Michael Stelling, of Bayport, N.Y.; B.A. The Johns Hopkins University, 1984.

Mary Kathryn Stewart, of Little Rock, Ark.; B.S. Abilene Christian University, 1980; M.D. University of Arkansas for Medical Sciences, 1984.

Anthony Suruda, of Lexington, Ky.; B.S. St. Peter's College, 1967; M.D. The Johns Hopkins University, 1971.

Terry Wayne Taylor, of Pascagoula, Miss.; B.S. University of South Alabama, 1979; M.D. University of Mississippi, 1983.

Juana Tomas, of Palma De Mallorca, Spain; M.D. University of Barcelona, 1982.

Matias Torrent Quetglas, of Ciutadella de Menorca, Spain; M.D. University of Barcelona, 1983.

Katherine Amy Treiman, of Princeton, N.J.; B.A. University of Pennsylvania, 1978.

Peter Chien-Hua Tseng, of Silver Spring, Md.; B.A. Amherst College, 1985.

Deborah Ann Elizabeth Tuzo, of Warwick, West Bermuda; B.Sc. Howard University, 1979; D.D.S., 1981.

Nkechi Patricia Ugwuh, of Ikenanzizi, Nigeria; M.B.B.S. University of Nigeria, 1983.

Ross James Van Antwerp, of Grand Rapids, Mich.; B.S. Grand Valley State College, 1976; D.O. Michigan State University, 1983.

Herman Jozef Van Oyen, of Brugge, Belgium; M.D. State University at Gent, 1981.

Koenraad Maria Vanormelingen, of Overijse, Belgium; M.D. University Catholique de Louvdin, 1980.

Margaret Mary Vaughan, of Rockville, Md.; B.S. University of Maryland, 1978; M.D., 1983.

Marta Villarejo, of Zaragoza, Spain; M.D. Universidad de Zaragoza, 1985.

Fernando Vio, of Santiago, Chile; M.D. University of Chile, 1970.

Delia A. Visto, of Iloilo City, Philippines; B.S.N. Central Philippine University, 1975.

Fred Wabwire-Mangen, of Kampala, Uganda; M.B.Ch.B. Makerere University, 1982.

Beth Anne Rose Wallen, of Short Hills, N.J.; B.A. The Johns Hopkins University, 1986.

Paula Jane Walsh, of Wilmington, Del.; B.S. Boston College, 1981.

Susan Russell Walters, of Jackson, Miss.; B.A. Mount Holyoke College, 1969; B.S.N. Case Western Reserve University, 1971; M.N. University of Pittsburgh, 1975.

Holly Rawlins Wieland, of North Little Rock, Ark.; B.S. The Johns Hopkins University, 1985.

Stefan Zbyszko Wiktor, of Philadelphia, Pa.; B.A. University of Pennsylvania, 1974; M.D. Pennsylvania State University, 1980.

Lynne Sharon Wilcox, of Gray, Ga.; B.S. Georgia College, 1975; M.D. Medical College of Georgia, 1980.

Neil Michael Anslem Williams, of New York, N.Y.; B.A. Columbia College, 1976; M.D. Mt. Sinai School of Medicine, 1980.

Steven Sungwhan Yoon, of Seoul, Korea; B.S. Massachusetts Institute of Technology, 1984.

Hong Zhang, of Chang Chun, China; M.D. Bethune Medical University, 1984.

Cheryl Zlotnick, of Chicago, Ill.; B.S.N. University of Delaware, 1977; M.S. Rush University, 1982.

MASTERS OF INTERNATIONAL PUBLIC POLICY

in The School of Advanced International Studies

Mariam Abdul Karim Alawadi, of Kuwait; B.A. Kuwait University, 1981.

Nasser M. Al Reshaidan, of Washington, D.C.; B.A. Riyadh University, 1978.

Thaddeus Likita Ashei, of Washington, D.C.; Advanced Diploma in International Relations University of Ife, 1982.

Edward Michael Borisevic, Jr.; of Baltimore, Md.; B.S. University of Baltimore, 1971.

Erika Teoman Brenner, of Graz, Austria; Dr. iur University of Graz, 1980.

Lawson Walter Brigham, of Seabrook, Md.; B.S. United States Coast Guard Academy, 1970; M.S. Rensselaer Polytechnic Institute, 1979.

Kathleen A. Brion, of Arlington, Va.; B.A. Georgetown University, 1973

Gail Hamer Burke, of Fairfax Station, Va.; B.A. Howard University, 1974.

William A. Carnahan, of Washington, D.C.; LL.B. State University of New York at Buffalo, 1964; LL.M. Harvard University, 1969.

Chul-Kyoon Chang, of Alexandria, Va.; B.A. Yonsei University, 1974.

Gustavo R. Coronel, of Bethesda, Md.; B.Sc. University of Tulsa, 1955.

Tiankai Cui, of Beijing, China; East China Normal University.

Joanne Dann, of Washington, D.C.; B.A. Barnard College, 1947; M.A. Columbia University, 1964.

Kirk Davis, of Nassau, Bahamas; B.A. American University, 1985.

Janet L. Dewar, of Washington, D.C.; B.A. Drew University, 1971.

Winni M. Fejne, of Stockholm, Sweden; B.A. University of Stockholm, 1970.

Roger M. Freeman, Jr., of Bethesda, Md.; B.A. Beloit College, 1976; M.B.A. University of Southern California, 1978.

Halidou Garga, of Washington, D.C.; Certificate of International Relations Institute of Cameroon, 1974; Diploma National School of Administration and Magistracy, 1980.

Melvin H. Geiger, of Washington, D.C.; B.A. City College of New York, 1953.

Atilano Gil Losada, of Falls Church, Va.; Dr. Diplomacy University of Uruguay, 1980.

Guoliang Gu, of Beijiang, China; Shanghai Institute of Foreign Languages.

Suyoi Haji Osman, of Brunei; B.A. University of East Anglia, 1975; Certif. Ed. London University, 1976.

Christopher B. Hearn, of Leesburg, Va.; B.A. Hobert College, 1976.

Seok-Kyn Hong, of Seoul, Korea; B.A. Seoul National University, 1979.

Chen Hang Hsieh, of Great Falls, Va.; LL.B. National Chengchi University, 1966; M.A. University of Kentucky, 1969.

Mingwu Huo, of Beijing, China; Beijing Foreign Language Institute.

Sonia M. Johnny, of Washington, D.C.; B.A. University of the West Indies, 1976; Diploma in International Relations, 1979.

Howard S. Kern, of Arlington, Va.; B.A. University of Virginia, 1974.

Yutaka Kiyokawa, of Tokyo, Japan; B.A. University of Tokyo, 1980.

U Ko Ko, of Rangoon, Burma; B.A. Rangoon University, 1968.

Dennis J. Lanahan, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1971; M.S., 1974; M.B.A. George Washington University, 1981.

Lin Di, of Beijing, China; B.A. Beijing Institute of Foreign Languages, 1985.

John B. Mallon, of Arlington, Va.; B.A. American University, 1968; M.A., 1975.

Manuel Mariño, of Chevy Chase, Md.; Civil Engineer, Universidad Federico Santa Maria, 1951.

David E. McAlary, of Falls Church, Va.; B.S. Boston University, 1969; M.A. Ohio State University, 1974.

Aleki M. Mukendi, of Pittem, Belgium; B.A. Nathaniel Hawthorne College, 1979; M.A. Ohio University, 1981.

Caryle Marie Murphy, of Washington, D.C.; B.A. Trinity College, 1968.

Jonathan Palmer Owen, of Silver Spring, Md.; B.A. Sonoma State University, 1970; M.P.A. George Washington University, 1973.

Richard King Perkins, of Alexandria, Va.; B.S. United States Naval Academy, 1969; M.S. Defense Intelligence College, 1983.

Hyuk-Sung Ro, of Seoul, Korea; B.S. Seoul National University, 1972; M.P.A., 1974.

Glenwood Ross, of Fairfax, Va.; B.A. Morehouse College, 1971; M.A. Wayne State University, 1975.

Sallama Shaker, of Washington, D.C.; B.A. Cairo University, 1968; M.A. Royal University of Malta, 1976.

Celso Marcos Vieira de Souza, of Brasilia, Brazil; diploma University of Rio, 1970.

Robert Bruce Stephan, of Hobart, Ind.; B.S. United States Air Force Academy, 1979; M.A. University of Belgrano, 1985.

Taclan Suerdem, of Springfield, Va.; B.A. University of Ankara, 1971.

U Aung Than, of Rangoon, Burma; B.A. Rangoon University, 1965.

Peter Taberannang Timeon, of Tarawa, Kiribati; B.A. University of the South Pacific, 1977.

G. Toe Washington, of Washington, D.C.; B.S. Business College, Ghana, 1952; M.A. Century University, 1982, Ph.D. 1983.

Toshio Watanabe, of Tokyo, Japan; B.A. Nanzan University, 1970.

Francis L. Wyman, of Fairfax, Va.; B.S. United States Military Academy, 1971.

Seiji Yajima, of Yokohama, Japan; B.A. University of Kyoto, 1971.

Hirotsugu Yoshitake, of Chiba, Japan; B.A. Yokohama National University, 1982.

Zhai Zhihai, of Beijing, China; Beijing Second Foreign Language Institute.

MASTERS OF ARTS IN INTERNATIONAL AFFAIRS

in The School of Advanced International Studies

Per Einar Harald Cramér, of Göteborg, Sweden; M.A. University of Göteborg, 1984.

Sally Dore, of London, England; B.A. Queens College Cambridge, 1985.

Tomasz Grabowski, of Katowice, Poland; B.A. Jagiellonian University, 1985.

Laura Sipala, of Catania, Italy; Laurea University of Catania, 1983.

Caroline T.A.H. Straathof, of The Hague, Netherlands; Cand. University of Amsterdam, 1984.

MASTERS OF ARTS

in The School of Advanced International Studies

A. Abbassian, of Paris, France; B.A. American College in Paris, 1984.

Khaled Ismail Al-akwáa, of Sanaa, Yemen; B.A. Sanaa University, 1982.

Dana Hansen Allin, of Germantown, Md.; B.A. Yale University, 1980.

Eric Steven Almeida, of Compton, R.I.; B.A. Brown University, 1984.

Abdulaziz Abdul-Rahman Al-Sudairi, of Jeddah, Saudi Arabia; B.A. University of Texas, 1983; M.B.A. Texas Christian University, 1985.

Mark Steven Andersen, of Reserve, Mont.; B.S. Montana State University, 1983.

Joan M. Anway, of San Bernardino, Calif.; B.A. Tufts University, 1981.

Douglas Appell, of Mt. Vernon, N.Y.; B.A. Cornell University, 1981.

Corinna M. Arnold, of Portland, Conn.; B.A. Amherst College, 1984.

Charles Barnett, of Washington, D.C.; B.A. Brown University, 1983.

Antonella Bassani, of Falconara, Italy; Laurea Venice University, 1985.

Mark Daniel Bauman, of New York, N.Y.; B.A. University of California at Berkeley, 1984.

Fernando J. Bautista, of Pasadena, Calif.; B.A. University of Southern California, 1983.

Paul D. Behrends, of Cincinnati, Ohio; B.S. Xavier University, 1981.

Mitchell P. Benedict, of Falls Church, Va.; B.A. College of William and Mary, 1980.

Patricia Alison Bergeron, of Bloomfield Hills, Mich.; B.G.S. University of Michigan, 1979.

Margaret Joanne Berry, of Wayne, Ill.; B.A. College of William and Mary, 1985.

Scott P. Billy, of Camillus, N.Y.; B.S.F.S. Georgetown University, 1983.

Desiree Camille Blackwell Leigh, of Washington, D.C.; B.A. University of Pennsylvania, 1980.

Amy Margaret Bliss, of Colorado Springs, Colo.; B.A. Colorado College, 1983.

Elizabeth A. Bloch, of New York, N.Y.; B.A. University of California, 1984.

Gwen A. Bondi, of Vallejo, Calif.; B.A. San Francisco State University, 1983.

David K. Boren, of Atlanta, Ga.; B.A. University of North Carolina, 1985.

Robert Allen Bortner, of Palatine, Ill.; B.A. Indiana University, 1983.

Michael S. Boster, of Cincinnati, Ohio; B.A. Miami University, 1984.

Hannah McCarley Boyle, of Dallas, Texas; B.A. University of Kansas, 1978.

Michael Braswell, of Riverdale, N.Y.; B.A. Connecticut College, 1982.

Karrye Yvonne Braxton, of Detroit, Mich.; B.A. Harvard University, 1982; M.B.A. University of Pennsylvania, 1985.

Dennis M. Britt, of San Diego, Calif.; B.A. University of California at Santa Cruz, 1977.

Margaret Mary Brooks, of Washington, D.C.; B.A. Trinity College, 1978.

Elizabeth F. Brown, of McLean, Va.; B.A. College of William and Mary, 1985.

Pamela J. Buck, of Washington, D.C.; B.S.F.S. Georgetown University, 1982.

Peter Andrew Burbank, of Menden, Conn.; B.A. Connecticut College, 1985.

Lauren Ariel Burnhill, of Mendham, N.J.; B.A. The Johns Hopkins University, 1983.

John Anthony Busch, of Philadelphia, Pa.; B.A. Tufts University, 1977.

Elizabeth C. Campbell, of Middletown, Conn.; B.S.F.S. Georgetown University, 1984.

Katharine M. Campbell, of Warlingham, Surrey, England; B.A. Oxford University, 1982.

Vanessa Joan Cano, of Ipswich, Mass.; B.A. University of Massachusetts, 1983.

Angelo Capozzi, III, of Tiburon, Calif.; B.A. University of Notre Dame, 1983.

Cynthia Carlisle, of Washington, D.C.; B.A. University of Massachusetts, 1985.

Jenifer Casalvieri, of St. Petersburg, Fla.; B.B.A. Emory University, 1982.

Craig Israel Celniker, of Washington, D.C.; University of California at San Diego, 1985.

Valerie Jumae Chang, of Greensburg, Pa.; B.A. Yale University, 1984.

Anne Clarac, of Elancourt, France; Maitrise Pantheon Sorbonne Paris, 1985.

David Stephen Coco, of Brewer, Maine; B.A. Dartmouth College, 1985.

Andrew Ward Cohen, of Newton, Mass.; B.A. Tufts University, 1985.

David E. Colton, of Bethesda, Md.; B.A. University of Pennsylvania, 1984.

Janet L. Craswell, of Bellingham, Wash.; B.A. University of Puget Sound, 1984.

Elizabeth Calhoun Creel, of Washington, D.C.; B.A. Skidmore College, 1979.

Christopher M. Cripps, of Washington, D.C.; B.A. Temple University, 1982; M.A. Middlebury College, 1986.

Linda Sue Crowl, of Clovis, N.M.; B.A. Oberlin College, 1982.

Jean Eveline Curran, of Harwich, Mass.; B.A. Dickinson College, 1985.

Guillaume D'Andlau, of Paris, France; diploma Institut d'Etudes Politiques de Paris, 1986.

John J. Davidson, of Arlington, Va.; B.A. Yale University, 1978.

Jane Irons Dawson, of Hudson, Ohio; B.A. Bryn Mawr College, 1980; M.A. Harvard University, 1983.

Krista Marie de la Harpe, of Santa Fe, N.M.; B.A. Wellesley College, 1985.

Alejandro C. Deustua, of Lima, Peru; B.A. Catholic University of Peru, 1973.

Marynell DeVaughn, of Omaha, Neb.; B.A. College of St. Catherine, 1980; J. D. Creighton University, 1983.

Lawrence T. Di Rita, of Detroit, Mich.; B.S. United States Naval Academy, 1980.

Thomas Russell Dickson, of Amagansett, N.Y.; B.A. Stanford University, 1984.

Edward Dubinski, of Washington, D.C.; B.A. American University, 1984.

William Wise Eaton, III, of West Chester, Pa.; B.A. Colgate University, 1984.

Linda Margaret Ervin, of Bethesda, Md.; B.A. Carleton University, 1973; M.L.S. University of Western Ontario, 1974.

Diego Espinosa Fernandez de Cordoba, of Panama City, Panama; B.S.L.E. Tufts University, 1983.

Joost Everaert, of Wezembeek-Oppem, Belgium; Licenciaat en Rechten Katholieke Universiteit Leuven, 1985.

Catherine Marie Farry, of St. Joseph, Minn.; B.A. Carleton College, 1984.

Fermin Fautsch, of Mexico City, Mexico; B.S. Monterrey Institute of Technology, 1981; M.B.A. University of Pennsylvania, 1985.

Carrie Ann Fisher, of Falls Church, Va.; B.A. Brandeis University, 1983.

Ian Fitzsimmons, of Birmingham, Mich.; B.A. University of Michigan, 1981.

Laura J. Forte, of Bronxville, N.Y.; B.A. Smith College, 1985.

Philip Adriano Frayne, of Croton, N.Y.; B.A. Columbia University, 1981.

Tanaa M. Frederic, of Morgan City, La.; B.B.A. John Cabot College, 1984.

Michael Friend, of Chevy Chase, Md.; B.A. Yale University, 1981.

Frederick R. Fucci, of Glen Ridge, N.J.; B.A. Amherst College, 1981.

Bettina Barbara Fuhrmann, of Munstermaifeld, West Germany; B.A. University of Heidelberg, 1983; B.A. Sweet Briar College, 1984.

Stephen Albert Fuller, of Bethesda, Md., B.A. University of Maryland, 1981.

Kathryn A. Funk, of Lahaina, Hawaii; B.A. University of California at Berkeley, 1983.

Stephen Joseph Garvin, of Inglewood, Calif.; B.A. Catholic University of America, 1976; M.A. University of California at Los Angeles, 1980.

Amjad A. Ghori, of Knoxville, Tenn.; B.A. Boston College, 1980.

Robert Maxwell Glen, of Washington, D.C.; B.A. University of North Carolina, 1978.

Sherin R. Gobran, of Philadelphia, Pa.; B.S. University of Pennsylvania, 1981.

Patricia Françoise Godest, of Paris, France; Diploma Institut d'Etudes Politiques, 1983.

Henk E. Goemans, of Amsterdam, Holland; Dr. International Relations University of Amsterdam, 1986.

Peter Goldstein, of Washington, D.C.; B.A. University of California at Santa Cruz, 1983.

Fernando Alfonso Gomez Arbelaez, of Panama, Panama; Law degree Universidad Santa Maria, 1985.

Philip Howard Gordon, of Fairfax, Va.; B.A. Ohio University, 1984.

Carol Lee Graham, of Gibson Island, Md.; B.A. Princeton University, 1984.

Michael Jonathan Green, of Chevy Chase, Md.; B.A. Kenyon College, 1983.

Adrian Grey, of Liss, Hants, England; B.A. Warwick University, 1985.

Patricia Monica Hahn, of Bethesda, Md.; B.A. Grinnell College, 1981.

Kay Lasta Halpern, of Amherst, Mass.; B.A. Amherst College, 1980.

Shelley Lynne Harris, of Berkeley, Calif.; B.A. University of California at Berkeley, 1981.

Teresita Heiser, of Glencoe, Ill.; B.A. University of Michigan, 1982.

Mary L. Heslin, of Manchester, N.H.; B.A. Dartmouth College, 1980.

Robert M. Heyssel, Jr., of Baltimore, Md.; B.S. Kenyon College, 1981.

Alan Raymond Hoffman, of Los Angeles, Calif; B.A. University of California at Los Angeles, 1983.

Weixing Hu, of Beijing, China; B.A. Beijing University, 1983.

Frances Perrin Huegel, of Alexandria, Va.; B.A. Boston University, 1976.

Susan Judith Hume, of Alexandria, Va.; B.S. Georgetown University, 1982.

Karen Renee Hunter, of Memphis, Tenn.; B.A. Spelman College, 1984.

Carollyne Hutter, of Madison, Wis.; B.A. University of Minnesota, 1984.

Sara Ann Isaac, of Lexington, N.C.; B.A. University of California at Davis, 1983.

Kai-li Jen, of Taipei, Taiwan; M.A. National Chengchi University, 1984.

Elizabeth Cooke Johnson, of Princeton, N.J.; B.A. Princeton University, 1982.

Maurice Allen Johnson, of Littleton, Colo.; B.A. University of Colorado, 1982.

Cedric La Rue Joubert, of Houston, Texas; B.A. Morehouse College, 1970; J.D. Texas Southern University, 1974.

Steven M. Judd, of Jacksonville, Ill.; B.A. St. Olaf College, 1982.

Marina Kanamori, of Tokyo, Japan; B.A. Wesleyan University, 1984.

Nan Terese Kennelley, of Short Hills, N.J.; B.A. Trinity College Dublin, 1981.

Humaira Khan, of Abbottabad, Pakistan; B.A. Oxford University, 1985.

Hyung Kook Kim, of Seoul, Korea; B.S. Korea University, 1982; B.A. Lewis and Clark University, 1985

Young Chul Kim, of Seoul, Korea; B.A. Yonsei University, 1984.

Helen Rex Knapp, of Bronxville, N.Y.; B.A. University of Virginia, 1984.

Margaret P. Knudson, of Bottineau, N.D.; B.A. University of North Dakota, 1982.

Tetsuo Kojima, of Shiga, Japan; B.A. Kyoto Sangyo University, 1981.

Jesper Jan Wilhelm Koll, of Krefeld, West Germany; B.A. American College in Paris, 1983.

Ryan Noel Krueger, of Washington, D.C.; B.A. Texas Lutheran College, 1978.

Chikako Kuno, of Chapel Hill, N.C.; B.A. University of North Carolina, 1981.

Douglas Trevor Kuzmiak, of Timonium, Md.; B.A. University of Natal, 1974.

Susanne Elizabeth Lane, of Westminster, Mass.; B.A. University of Nottingham, 1979.

David Michael Layton, of Falls Church, Va., B.A. University of California at Santa Cruz, 1975.

Margaret R. Leddy, of Arlington, Va.; B.M.E. General Motors Institute, 1982.

Jessie Wilcox Lenagh, of Washington, D.C.; B.A. Williams College, 1983.

Bernard Lhoest, of Brussels, Belgium; Licence Universite Libre de Bruxelles, 1985.

Catherine Margel Lindzey, of Centre Hall, Pa.; B.A. Pennsylvania State University, 1980.

Christopher John Littel, of Fairfax, Va.; B.S. United States Military Academy, 1978.

Pyramyth Hong Tu Liu, of Tainan, Taiwan; B.B.A. National Chengkung University, 1982.

Jose Luis Fernandes Lopes, of Bethesda, Md.; B.A. Faculdade Letras Lisbon, 1973; M.I.P.P. The Johns Hopkins University, 1985.

Marco Antonio Loprieno, of Pisa, Italy; Laurea University of Pisa, 1982.

Gail M. Lusby, of EDO de GTO, Mexico; Diploma Institut d'Etudes Politiques, 1979.

Alison Margaret Macdonald, of Washington, D.C.; B.A. Carleton College, 1982.

Martin P. Mair, of Baltimore, Md.; B.A. Loyola College, 1985.

Lisa Ann Mammel, of Birmingham, Mich.; B.A. Kalamazoo College, 1984.

Tracy Mardigian, of Los Angeles, Calif.; B.A. Tufts University, 1983.

Terrence Craig Markin, of Washington, D.C.; B.A. Occidential College, 1978; J. D. Hofstra University, 1982; M.S. Columbia University, 1983.

Geoffrey Kennedy Masukawa, of Montgomery, Ohio; B.A. The Johns Hopkins University, 1986.

Alexander Andrew McPhail, of Portland, Ore.; B.S. Portland State University, 1985.

David Mees, of Ermelo, The Netherlands; B.A. Tufts University, 1982.

Ralph C. Meima, III, of Bethesda, Md.; B.S. Rensselaer Polytechnic Institute, 1983.

Carine Menache, of Washington, D.C.; B.A. Oberlin College, 1985.

Jeffrey John Miller, of Chaska, Minn.; B.A. University of Chicago, 1985.

Paul R. Miller, III, of New York, N.Y.; B.A. Brown University, 1982.

Jay Kent Mitchell, of Washington, D.C.; B.A. University of Virginia, 1983.

Stephen P. Mitchell, of Beaufort, Victoria, Australia; B.A. Monash University, 1984.

Jordi Molas i Gallart, of Barcelona, Spain; Licenciatura Universidad Autonoma de Barcelona, 1985.

John Duncan Moore, Jr., of Towson, Md.; B.A. Brown University, 1980.

Jamil Abdalla Mubarak, of Mogadishu, Somalia; B.A. Somali National University, 1980.

Jennifer T. Muratore, of Reston, Va.; B.A. State University of New York at Albany, 1980.

Timothy James Naftali, of Montreal, P.Q., Canada; B.A. Yale University, 1983.

Suzanne Elizabeth Nagle, of La Grange, Ill.; B.A. University of Colorado, 1980.

Luigi Narbone, of Ancona, Italy; Laurea University of Bologna, 1983.

Ng Cheng Ker, of Singapore; B.Sc. National University of Singapore, 1981.

Lawrence Peter O'Hagan, of Toronto, Canada; B.A. University of Toronto, 1984.

Kevin Michael O'Reilly, of Wilmette, Ill.; B.A. Loyola University of Chicago, 1983.

Theresa Kay Osborne, of Baraboo, Wis.; B.A. University of Wisconsin, 1984.

Christopher Alan Padilla, of New Providence, N.J.; B.A. The Johns Hopkins University, 1986.

Amir Pašić, of Vienna Austria; B.A. Yale University, 1985.

Patti Louise Petesch, of Rockville, Md.; B.A. University of Michigan, 1982.

Barbara Anne Pitkin, of Purdys, N.Y.; B.A. Brown University, 1982.

Danielle Margarethe Pletka, of Brookline, Mass.; B.A. Smith College, 1984.

Valerie Renée Ploumpis, of Washington, D.C.; B.A. Mills College, 1983.

Mark Steven Porter, of Tucson, Ariz.; B.A. Claremont Men's College, 1979; M.S.S.M. University of Southern California, 1982.

Pierfrancesco Pozzi Rocco, of Civitavecchia, Italy; Licence Universite Libre de Bruxelles, 1985.

Dianna Lynn Previs, of Oakland, Calif.; B.A. University of California at Berkeley, 1985.

Jennifer Beauvais Puchta, of Washington, D.C.; B.A. Tufts University, 1978.

William Ross Pumfrey, of Washington, D.C.; B.A. Occidental College, 1967; M.A. University of California at Berkeley, 1983.

Gregory John Radomisli, of New York, N.Y.; B.A. Tufts University, 1985.

Barbara D. Ranagan, of Bethesda, Md.; B.A. State University of New York at Buffalo, 1975; J.D. Boston College, 1979.

Emily Ann Rau, of Clayton, Mo.; B.A. Lake Erie College, 1979; M.A. St. Louis University, 1981.

David Harris Resnicoff, of Concord, N.H.; B.A. Colby College, 1985.

Claudia Riccardi, of Palermo, Italy; B.A. University of California at Santa Cruz, 1985.

Donna Rich, of Ann Arbor, Mich.; B.A. University of Michigan, 1984.

Dennis Lee Richards, of Washington, D.C.; B.A. University of Missouri, 1973; M.C.R.P. California State University, 1975.

Alan Marc Rifkin, of Worcester, Mass.; B.A. University of Pennsylvania, 1985.

Peter Edgar Rioux, of Montreal, P.Q., Canada; B.A. Concordia University, 1980.

Rhys William Robinson, of Sarasota, Fla.; B.A. Dartmouth College, 1983.

Charlotte A. Ruhe, of Brazil, Ind.; B.A. Indiana University, 1983; M.A. University of Essex, 1985.

Letitia M. Rydjeski, of Randolph, Vt.; B.A. McGill University, 1983.

Paolo Francesco Sangiotta, of Milan, Italy; Laurea University of Siena, 1980.

Kathleen Nell Schalch, of Philadelphia, Pa.; B.A. Cornell University, 1980.

Roger Martin Scher, of Bay Shore, N.Y.; B.A. Tufts University, 1984.

Robert Morrill Schley, of George West, Texas; B.A. Southwestern University, 1985.

M.-M. Kateri Scott-MacDonald, of Bloomfield, Conn.; B.A. University of Connecticut, 1983.

Kristina Ŝegulja, of Seattle, Wash.; B.A. University of Washington, 1983.

Julia Wei Simmons, of Alexandria, Va.; B.A. National Chengchi University, 1977; M.A., 1983.

Diana Tracy Simonhoff, of Miami, Fla.; B.A. Cornell University, 1985.

Karen J. Sirker, of New Orleans, La.; B.A. Antioch College, 1981.

Frank M. Smyth, of Hawthorne, N.J.; B.A. Boston College, 1982.

Lynn E. Steckelberg, of Madison, Wis.; B.A. Oberlin College, 1982.

Iuliana Stefan, of Washington, D.C.; Columbia University, 1984.

Christine Stelling, of Bayport, N.Y.; B.A. Princeton University, 1983.

Skylar Andrew Stuck, of Portland, Ore.; B.A. University of Puget Sound, 1983.

Satoshi Suzuki, of Shizuoka, Japan; B.A. Tokyo University, 1984.

Rachel Marie Swanger, of Washington, D.C.; B.A. College of Wooster, 1982.

Philip H. Swanson, of Minneapolis, Minn.; B.A. The Johns Hopkins University, 1986.

Diana Margaret Tasnadi, of Washington, D.C.; B.A. Georgetown University, 1984.

Astrid Tesson, of Marnes-La-Coquette, France; B.A. American College in Paris, 1985.

Gale E. Thompson, of Washington, D.C.; B.A. Wellesley College, 1982.

Christopher Alan Thorn, of Georgetown, Ind.; B.A. Indiana University, 1985.

Joan Timoney, of Washington, D.C.; B.A. George Washington University, 1976.

Hakan Tongul, of Hartsdale, N.Y.; B.A. University of Michigan, 1984.

Eva Pauline Torehall, of Helingborg, Sweden; B.A. Stockholm School of Journalism, 1977; M.Sc. Roosevelt University, 1979.

Thetis I. Tsitidou, of Athens, Greece; Diplom Ingenieur Technisches Universitaet Wien, 1978.

Hsiu-chen Flora Tsui, of Taipei, Taiwan; B.A. National Taiwan University, 1984.

John C. F. Turnure, of Salisbury, Conn.; B.S. Georgetown University, 1980.

Thomas Alan Underwood, of Washington, D.C.; B.A. Macalester College, 1981.

William J. Valdez, of Alexandria, Va.; B.J. University of Texas, 1980.

Jeanne Leigh Valentine, of Morris, N.Y.; B.S. St. John Fisher College, 1984.

Godelieve Van Haute, of Leuven, Belgium; Lic. Law Katholieke Universiteit Leuven, 1985.

Pamela Sue Viglielmo, of New York, N.Y.; B.A. Union College, 1982.

Carl Fredrik von Baumgarten, of Stockholm, Sweden; B.A. University of Stockholm, 1985.

Peter Vrecar, of Linz, Austria; Mag. iur University of Graz, 1983.

Harrison Morton Wadsworth, III, of Atlanta, Ga.; B.A. University of California at Davis, 1977.

Cassandra Denise Waldon, of Pylesville, Md.; B.A. Clark College, 1984.

Edward Wilkes Walker, of Washington, D.C.; B.A. Harvard University, 1977.

Claudius W. Wamlek, of Rum, Austria; Dr. iTur University of Innsbruck, 1985.

Karsten Warnecke, of Berlin, Germany; B.A. Freie Universitat Berlin, 1984.

Leila McKimmon Webster, of Southern Pines, N.C.; B.A. University of North Carolina, 1973; M.A. 1983.

Karin Wellenkötter, of Wiedenbruck, Germany; M.A. Free University of Berlin, 1986.

Stephen Bradley Whitaker, of Yarmouth, N.S., Canada; B.S. Bates College, 1984.

Jennifer Jarvis White, of Washington, D.C.; B.S.F.S. Georgetown University, 1977.

Scott K. Wilder, of New York, N.Y.; B.A. Vassar College, 1983.

Rhys H. Williams, of Boston, Mass.; B.A. Duke University, 1983.

Richard Fenton Wilson, of McLean, Va.; B.A. Davidson College, 1983.

Diana Elizabeth Wood, of Washington, D.C.; B.A. Scripps College, 1969.

Suzanne Wood, of Golden, Colo.; B.A. Lewis and Clark College, 1984.

Alexander Penn Hill Wyrough, of Upper Marlboro, Md.; B.A. College of William and Mary, 1980.

Michael D. Young, of Beirut, Lebanon; B.A. American University of Beirut, 1985.

Xiaochuan Zhang, of Beijing, China; B.A. Institute of International Relations, 1979.

John M. Zindar, of Sheboygan, Wis.; B.A. Ripon College, 1978.

MASTERS OF SCIENCE IN CLINICAL ENGINEERING

in The School of Medicine

Jane Cheun, of Rydal, Pa.; B.S. The Johns Hopkins University, 1985. Biomedical Engineering.

Deformation of the In Situ Canine Pericardium.

MASTERS OF ARTS

in The School of Medicine

April Velerie Applegate, of Bowie, Md.; B.S. University of Maryland College Park, 1984. Neuroscience.

Septohippocampal Grafts as an in vivo System for Characterizing Nueronal viability and vulnerability in Murine Trisomy 16.

Bruce Eric Blausen, of Pittsburgh, Pa.; B.A. Pennsylvania State University, 1984. Medical and Biological Illustration.

The Utilization of Personal Computers in Three-Dimensional Reconstruction: Application to the Cardiac Ventricles of the Human Embryo.

Milton Engel, of Washington, D.C.; B.A. Harvard College, 1956: M.D. Albert Einstein College of Medicine, 1960. History of Medicine.

Edward Kempf and the Introduction of Psychoanalysis into the Public Mental Hospital.

Joanna Yueh Lee, of Albany, Ore; B.A. University of California at Berkeley, 1984. Pharmacology and Molecular Sciences.

Biochemical and Immunological Studies of the Cytomegalovirus B-capsid Assembly Protein and its Involvement in Virion Assembly.

Joseph E. Michalski, Jr., of Pasadena, Md.; B.F.A. Maryland Institute College of Art, 1982. Medical and Biological Illustration.

The Use of Teeth in Determining Age in Mammals (Specifically Pinnipeds).

Robin L. Pagodin, of Morristown, N.J.; B.S. Rider College, 1984. Pharmacology and Molecular Sciences.

Isolation, Characterization and Expression of Novel Murine Alpha Interferon Genes.

Robert Eugene Ward, of Belmont, Calif.; B.A., B.S. University of California at Santa Barbara, 1981. Molecular Biology and Genetics-Immunology.

Production of IgE and IgG-binding Factors by a Single T Cell Hybridoma: Analysis by SDS-PAGE and by β-elimination.

MASTERS OF CHEMICAL ENGINEERING

in The G.W.C. Whiting School of Engineering

Anthony Casalena, of Monkton, Md.; B.S. Towson State University, 1980.

Lisa Marie Duncan, of Baltimore, Md.; B.S. Harvey Mudd College, 1984.

MASTERS OF CIVIL ENGINEERING

in The G.W.C. Whiting School of Engineering

John L. Kerchner, of Shrewsbury, Pa.; B.S. Pennsylvania State University, 1983.

Shahin Nejad, of Cockeysville, Md.; B.S.C.E. Purdue University, 1982.

MASTERS OF MATERIALS SCIENCE

in The G.W.C. Whiting School of Engineering

Alla Shishlova Flom, of Baltimore, Md.

MASTERS OF SCIENCE

in The G.W.C. Whiting School of Engineering

Debbie A. Adkins, of Laurel, Md.; B.S. University of Maryland, 1981. Computer Science.

Linda M. Adkins, of Baltimore, Md.; B.S. Towson State University, 1980. Computer Science.

Kenneth William Allen, of Towson, Md.; B.A. University of Florida, 1966; M.A. Harvard University, 1971; Ph.D., 1971. Computer Science.

Shubhangi Parag Ambardekar, of Bowie, Md.; B.S. Maharaja Sayajirao University of Barodo, 1975; M.S. Bombay University, 1979. Computer Science.

Anne Leonard Andrews, of Columbia, Md.; B.S. Frostburg State College, 1957. Numerical Science.

Mary S. Armstrong, of Annapolis, Md.: B.A. University of Chicago, 1979. Computer Science.

Paul Bennett Auerbach, of Randallstown, Md.; B.S.E.E. Carnegie-Mellon University, 1978. Electrical Engineering.

Robert Gilbert Avery, Jr., of Baltimore, Md.; B.A. University of Maryland Baltimore County, 1976. Computer Science.

Paul Robert Bade, of Columbia, Md.; B.S. Virginia Polytechnic Institute and State University, 1982. Electrical Engineering.

Thomas Robert Bailey, of Glen Burnie, Md.; B.S. University of Maryland, 1982; M.S. The Johns Hopkins University, 1985. Electrical Engineering.

John Michael Bajzik, of Columbia, Md.; B.S.E. Case Western Reserve University, 1981; M.S. The Johns Hopkins University, 1986. Computer Science.

Julie A. Beardmore, of Rockville, Md.; B.S. University of Maryland, 1973. Computer Science.

Thomas Michael Beck, of Silver Spring, Md.; B.S.E. Northeastern University, 1981; M.S. The Johns Hopkins University, 1983. Electrical Engineering.

James D. Behm, of Laurel, Md.; B.A. Gustavus Adolphus College, 1973; M.S. University of Arizona, 1975. Computer Science.

Kathryn L. Benson, of Baltimore, Md.; B.A. Western Maryland College, 1982. Computer Science.

Clarence Samuel Berger, of Columbia, Md.; B.S.E. Drexel University, 1954. Computer Science.

Ivette del Carmen Betancourt, of Laurel, Md.; B.S. University of Puerto Rico, 1980. Computer Science.

Paul Carter Bergmann, of Clarksburg, Md.; B.A. American University, 1975. Computer Science.

Deborah J. Blake, of Adelphi, Md.; B.A. University of South Florida, 1978; B.S. University of Maryland, 1981. Computer Science.

Frederick Michael Blanchette, of Hanover, Md.; B.S. Southeastern Massachusetts University, 1975; B.S., 1980. Electrical Engineering.

Robert M. Blonchek, of Laurel, Md.; B.S. Ohio State University, 1984. Computer Science.

David J. Blum, of Germantown, Md.; B.A. University of Maryland, 1978. Computer Science.

Allan R. Bly, Jr., of Columbia, Md.; B.S. Auburn University, 1981. Electrical Engineering.

Shawn A. Bohner, of Columbia, Md.; B.S. University of Maryland, 1984. Computer Science.

Christopher J. Bolton, of Baltimore, Md.; B.A. University of Maryland, 1975. Computer Science.

Mary Jane Borda, of Laurel, Md.; B.A. The Johns Hopkins University, 1984. Numerical Science.

Aruthur James Bradley, of Laurel, Md.; B.S. Florida Institute of Technology, 1972; M.S. Stevens Institute of Technology, 1977. Computer Science.

John Brian Branthover, of Dayton, Md.; B.S.E. University of Maryland, 1982. Electrical Engineering.

Susan Brennan, of Baltimore, Md.; B.A. The Johns Hopkins University, 1982; C.C.E.S., 1985. Applied Physics.

Robert C. Brick, of Laurel, Md.; B.A. University of Akron, 1984. Computer Science.

Thomas Edward Bricker, of Laurel, Md.; B.S. Case Institute of Technology, 1965. Computer Science.

James R. Brockett, of Pensacola, Fla.; B.S. United States Naval Academy, 1986. Computer Science.

Charles Owen Bromley, of Baltimore, Md.; B.S.C.E. University of Toledo, 1979. Environmental Engineering.

Ethel Jane Brown, of Laurel, Md.; B.S. University of South Carolina, 1981. Computer Science.

James Robert Brown, of Silver Spring, Md.; B.S. Bloomsburg University, 1983. Computer Science.

Susan Bower Brown, of Silver Spring, Md.; B.S. Bloomsburg University, 1983. Computer Science.

William L. Brown, Jr., of Baltimore, Md.; B.S. Drexel University, 1970; M.S. The Johns Hopkins University, 1975. Technical Management.

Peter D. Brownrigg, of Baltimore, Md.; B.A. Princeton University, 1965. Computer Science.

Mark D. Buck, of Silver Spring, Md.; M.A. University of Rochester, 1979. Computer Science.

Paul Joseph Burns, of Oakton, Va.; B.S. University of Vermont, 1984. Computer Science.

Jeffrey Scott Burt, of Columbia, Md.; B.S. Michigan Technological University, 1983. Computer Science.

Dennis Allen Burton, of Baltimore, Md.; B.S. The Johns Hopkins University, 1986. Electrical Engineering.

James B. Byrnes, of Annaplois, Md.; B.S. St. Mary's College of Maryland, 1977. Numerical Science.

Edward Joseph Calabrese, of Glen Burnie, Md.; B.S. Edinboro University of Pennsylvania, 1983. Computer Science.

Pamela Kay Caldwell, of Cheverly, Md.; B.A. College of William and Mary, 1982. Numerical Science.

Shirley Anne Campbell, of Burtonsville, Md.; B.S. Virginia Polytechnic Institute and State University, 1972; M.S. College of William and Mary, 1978. Computer Science.

William H. Campbell, of Columbia, Md.; B.S.M. Massachusetts Maritime Academy, 1967. Technical Management.

Maria Elena Canales, of Gaithersburg, Md.; B.S. Mary Washington College, 1983. Computer Science.

Ralph L. Cardona, of Bethesda, Md.; B.S. The University of Pennsylvania, 1981. Computer Science.

Kalvin W. Chang, of Derwood, Md.; M.S. Wichita State University, 1971; M.S. University of Missouri, 1975. Computer Science.

Lisa Connors Chatterjee, of Silver Spring, Md.; B.S. University of West Florida, 1979. Computer Science.

Long H. Chen, of Silver Spring, Md.; B.S. National Taiwan University, 1977; M.S., 1979; Ph.D. West Virginia University, 1981. Computer Science.

Michael Tak Chen, of Garrett Park, Md.; B.S. University of Maryland, 1983. Electrical Engineering.

Moh-Jiun Hu Chen, of Hyattsville, Md.; B.S. National Chung-Hsing University, 1975. Computer Science.

Bruce G. Chestnutt, of Eldersburg, Md.; B.S.C.S. Virginia Polytechnic Institute and State University, 1979. Computer Science.

Judy T. Chiang, of Rockville, Md.; B.A. Fu-Jen Catholic University of Taiwan, 1971. Computer Science.

Chiaoping Chou, of Potomac, Md.; B.S. Fu-Jen Catholic University, 1969; M.A. State University College at Geneseo, 1974. Computer Science.

Michael J. Chrzanowski, of Glen Burnie, Md.; B.A. University of Maryland, 1981. Computer Science.

Robert Lian-Kung Chu, of Laurel, Md.; M.S.E. University of Colorado, 1972. Technical Management.

Tammy L. Cinotto, of Columbia, Md.; B.S. Indiana State University, 1984. Computer Science.

Timothy William Clark, of Arlington, Va.; B.S. State University of New York at Albany, 1982. Computer Science.

William L. Cohen, of Rockville, Md.; B.S. Rensselaer Polytechnic Institute, 1983. Computer Science.

Ralph Floyd Cohn, of Columbia, Md.; B.S. Tufts University, 1977; M.S. University of Rhode Island. 1979.

Robert William Colestock, of Pasadena, Md.; B.S. Rochester Institute of Technology, 1983. Electrical Engineering.

Brenda Lois Comstdet, of Columbia, Md.; B.A. Temple University, 1984. Computer Science.

Gary Russell Comstock, of Timonium, Md.; B.S. University of Maryland, 1977. Computer Science.

Barbara Grace Conrad, of Baltimore, Md.; B.A. Towson State University, 1972. Computer Science.

Timothy J. Consroe, of Potomac, Md.; B.S. University of Maryland, 1969. Computer Science.

James Martin Cornelison, of Crofton, Md.; B.S. University of Maryland, 1984. Computer Science.

Susan Quinly Coulter, of Columbia, Md.; B.A. Florida State University, 1982. Computer Science.

Donna Katherine Cover, of Annapolis, Md.; B.A. Immaculata College, 1969. Computer Science.

Ronald Franklin Cox, of Severn, Md.; B.S.E.E. University of Maryland, 1979. Electrical Engineering.

Tracey Jo Crawford, of Columbia, Md.; B.S. Pennsylvania State University, 1983. Computer Science.

James Wilson Creech, of Upper Marlboro, Md.; B.S. Voorhees College, 1970. Computer Science.

James Conrad Crichton, of Derwood, Md.; B.S. Yale University, 1982. Computer Science.

Peter William Crickman, of Sykesville, Md.; B.S. Frostburg State College, 1981. Computer Science.

John Clinton Curley, of Annapolis, Md.; B.S. Bowie State College, 1981. Computer Science.

Michael Craig Cyphers, of Lutherville, Md.; B.S. Loyola College, 1980. Computer Science.

Lawrence Eugene Dadin, of Jessup, Md.; B.S. Virginia Polytechnic Institute and State University, 1983. Computer Science.

Judy Duncan Daniluk, of College Park, Md.; B.A. University of North Carolina, 1975. Computer Science.

Sukla R. Das, of Columbia, Md.; B.S.E. University of Pennsylvania, 1984. Electrical Engineering.

Carlton Daniel Davis, of Columbia, Md.; B.S.E. University of Delaware, 1980. Applied Physics.

Don Eric Davis, of Columbia, Md.; B.S. Virginia Polytechnic Institute and State University, 1982. Computer Science.

Donna Jean Davis, of Baldwin, Md.; B.S. Towson State University, 1981. Computer Science.

Herng-der Day, of Rockville, Md.; B.S. National Taiwan University, 1973; M.S. University of Akron, 1983. Computer Science.

Ronald Ray Demers, of Columbia, Md.; B.A. Rhode Island College, 1982. Computer Science.

Patrick Michael Dempsey, of Baltimore, Md.; B.S. Towson State University, 1981. Computer Science.

George Russell Dinwiddie, of Clarksville, Md.; B.A. Augusta College, 1974. Computer Science.

John Neff Dittman, III, of Ellicott City, Md.; B.S. Loyola College, 1983. Electrical Engineering.

Diane Joan Doriski, of Columbia, Md.; B.A. State University College of New York, 1981; M.S. Rensselaer Polytechnic Institute, 1983. Computer Science.

James Francis Dray, of Myersville, Md.; B.S. Frostburg State College, 1978. Computer Science.

Pamela Jean Dudeck, of Columbia, Md.; B.A. Wilson College, 1977. Computer Science.

Kimberly Rae Edwards, of Jessup, Md.; B.S. Youngstown State University, 1983. Computer Science.

Daniel Eisenreich, of Catonsville, Md.; B.S. Geneva College, 1984. Computer Science.

Peter Eisenreich, of Catonsville, Md.; B.S.E. Geneva College, 1982. Electrical Engineering.

Seth Laurence Elan, of Columbia, Md.; B.A. Princeton University, 1979. Computer Science.

Donald David Ellis, of Columbia, Md.; B.S. West Virginia University, 1960. Technical Management.

Woodrow Wilson Ewen, of Silver Spring, Md.; B.S.E.E. University of Maryland, 1971. Technical Management.

Judy L. Fabrikant of Silver Spring, Md.; B.S. University of Alabama, 1977. Computer Science.

Ylonda Fauntleroy, of Arnold, Md.; B.A. Spelman College, 1980. Numerical Science.

Nancy Kathryn Fazzino, of Germantown, Md.; B.S.N. Carolina State University, 1981. Computer Science.

Carlo Joseph Fedele, of Pasadena, Md.; B.A. University of Delaware, 1972; B.S.E. Widener University, 1982. Computer Science.

Ian Eric Feldberg, of Baltimore, Md.; B.S. The Johns Hopkins University, 1984. Computer Science.

Judith A. Feustle, of Baltimore, Md.; B.S. University of Maryland at Baltimore, 1979. Computer Science.

Keith Perry Fisher, of Annapolis, Md.; B.A. University of Pennsylvania, 1981. Computer Science.

Alfred Bell Fitzgerald, of Severna Park, Md.; B.A. Wake Forest University, 1978; B.S.E. University of North Carolina, 1981. Computer Science.

Maureen Ann Flegal, of Glen Burnie, Md.; B.S. Lock Haven University, 1982. Computer Science.

John Florence, of Elkridge, Md.; B.S. West Chester State University, 1966; M.S. George Washington University, 1972. Computer Science.

Mary Nowakowski Foelber, of Baltimore, Md.; B.S. Towson State University, 1983. Computer Science.

Samuel Casper Fogle, Jr., of College Park, Md.; B.S.E. University of Maryland, 1976. Technical Management.

Catherine R. Foster, of Columbia, Md.; B.S. Centre College, 1978. B.S. Washington University, 1980. Numerical Science.

Sterling S. Foster, of Columbia, Md.; B.S. Virginia Polytechnic Institute and State University, 1978; B.S. University of Maryland, 1983. Computer Science.

David Allen Fuselier, of Millersville, Md.; B.S. University of Maryland, 1981. Computer Science.

Wendie Gadomski, of Laurel, Md.; B.S. Pennsylvania State University, 1983. Computer Science.

Robert Steel Gehret, of Hampstead, Md.; B.S. Lehigh University, 1981. Environmental Engineering.

Jeffrey Mervin Gilbert, of York, Pa.; B.S. Pennsylvania State University, 1982. Computer Science.

Pascal F. Girard, of Silver Spring, Md.; B.A. Drew University, 1983. Computer Science.

Jill Ellen Glassgold, of Baltimore, Md.; B.S.C.E. Tufts University, 1979. Environmental Engineering.

Stuart Alan Goemmer, of Baltimore, Md.; B.S. Virginia Polytechnic Institute and State University, 1983. Electrical Engineering.

Shailender K. Gola, of Silver Spring, Md.; B.S. University of Maryland, 1984. Computer Science.

Arnold Cy Goldberg, of Baltimore, Md.; B.S. University of Maryland, 1981. Applied Physics.

Harry R. Goldberg, of Baltimore, Md.; B.A. Franklin and Marshall College, 1978; M.S. The Johns Hopkins University, 1983. Computer Science.

Karen Theresa Goldee, of Westminster, Md.; B.A. Florida Southern College, 1974. Computer Science.

Andrew Charles Good, of Columbia, Md.; B.S. Virginia Polytechnic Institute and State University, 1979. Computer Science.

Margaret A. Granok, of Ellicott City, Md.; B.S. University of Chicago, 1973; M.A. University of Illinois, 1975; B.S. University of Maryland, 1981. Computer Science.

Greig Greenwald, of Gaithersburg, Md.; B.S. Vanderbilt University, 1985. Computer Science.

Elizabeth Anne Grise, of Laurel, Md.; B.A. Wheaton College, 1978. Computer Science.

Nathan Gross, of Silver Spring, Md.; B.T.L. Ner Israel Rabbinical College, 1984. Computer Science.

Jeff W. Gura, of Germantown, Md.; B.S. Loyola University, 1981. Computer Science.

Kathy Irene Hartley, of Jessup, Md.; B.S. Youngstown State University, 1983. Computer Science.

Moshe Israel Hauer, of Pikesville, Md.; B.T.L. Ner Israel Rabbinical College, 1985. Computer Science.

Patricia Ann Hawley, of Sykesville, Md.; B.A. Mount Holyoke College, 1980; M.S. Purdue University, 1983. Applied Physics.

Mark Christopher Hayman, of Laurel, Md.; B.S. Drexel University, 1982. Computer Science.

Rebecca Petit Hays, of Glen Burnie, Md.; B.A. University of Tennessee, 1981. Computer Science.

John Michael Hearn, of Towson, Md.; B.E.S. The Johns Hopkins University, 1979. Environmental Engineering.

Ronda R. Henning, of Columbia, Md.; B.A. University of Pittsburgh, 1978. Computer Science.

Lisa Ann Herard, of Silver Spring, Md.; B.S. Davidson College, 1983. Numerical Science.

Carol Link Higgins, of Laurel, Md.; A.A. Berkshire Community College, 1979; B.S. Rensselaer Polytechnic Institute, 1981. Computer Science.

Herman Alvin Higgins, Jr., of Laurel, Md.; B.A. Berry College, 1979. Computer Science.

Michael Charles Hild, of Cockeysville, Md.; B.S.E. The Johns Hopkins University, 1981. Technical Management.

Michael Lewis Hill, of Fulton, Md.; B.S. University of Maryland, 1968. Computer Science.

John Lee Hochstetler, of Crofton, Md.; B.S. Purdue University, 1982. Computer Science.

Cynthia Milavec Hoesman, of Laurel, Md.; B.A. West Virginia University, 1982. Computer Science.

Christine Marie Hokans, of Rockville, Md.; B.A. University of San Diego, 1978. Computer Science.

Thomas W. Hormby, of Rockville, Md.; B.S. University of Delaware, 1971; B.S. University of Maryland, 1983. Computer Science.

Thomas Michael Hornick, of Baltimore, Md.; B.S. Towson State University, 1982. Computer Science.

Laurie Sue Howard, of Columbia, Md.; B.S. University of Maryland, 1983. Computer Science.

Jonathan Carr Howland, of Laurel, Md.; B.S. University of Maine, 1980. Computer Science.

Justin Chin-Chung Hsu, of Lutherville, Md.; B.S. National Taiwan University, 1965; M.S. Georgetown University, 1972; Ph.D., 1972. Environmental Engineering.

David C. Huang, of Rockville, Md.; B.S. Peking Petroleum Engineering College, 1963. Computer Science.

Jeffrey Lee Hughes, of Brevard, N.C.; B.S. Capitol Institute of Technology, 1983. Electrical Engineering.

Michael J. Innella, of Columbia, Md.; M.A. Ball State University, 1978. Technical Management.

Bonita Arleen Isley, of Bowie, Md.; B.S. University of Pittsburgh, 1983. Computer Science.

Mark George Jacobs, of Baltimore, Md.; B.S. University of Maryland, 1983. Electrical Engineering.

Paul R. Jakubowski, of Lutherville, Md.; B.E.S. The Johns Hopkins University, 1979. Computer Science.

Dennis Vernet Jefferson, of Washington, D.C.; B.A. American University, 1982. Computer Science.

Robert William Jensen, of Columbia, Md.; B.S. Rensselaer Polytechnic Institute, 1983. Electrical Engineering.

Paul Juliano, of Columbia, Md.; University of New Mexico, 1976. Computer Science.

James F. Kalkbrenner, of Bowie, Md.; B.S.E. Drexel University, 1982. Electrical Engineering.

Michael T. Kane, of Silver Spring, Md.; B.S. University of Pittsburgh, 1978; M.S. George Washington University, 1979. Computer Science.

Keith Hyuk Kang, of Baltimore, Md.; B.S. Towson State University, 1984. Electrical Engineering.

Ronald G. Karpinski, of Cockeysville, Md.; B.S.E. The Johns Hopkins University, 1982. Technical Management.

Stanley S. Kask, Jr., of Bowie, Md.; B.S. Massachusetts Institute of Technology, 1971. Computer Science.

Terrence Lee Kay, of Columbia, Md.; M.S.W. University of Michigan, 1975. Computer Science.

Kevin R. Keefer, of Columbia, Md.; B.S.E. The Johns Hopkins University, 1981. Electrical Engineering.

Wayne M. Kern, of Baltimore, Md.; B.S. Loyola College, 1977. Computer Science.

Saeed Ahmad Khalfay, of Columbia, Md.; B.S. University of Engineering and Technology, Lahore, 1978; M.S. Syracuse University, 1980. Computer Science.

Oliver Hyonki Kim, of Silver Spring, Md.; B.S. University of Maryland, 1985. Electrical Engineering.

Robert F. Kirmse, of Vienna, Va.; B.S. City College of New York, 1970; M.B.A. St. John's University, 1974. Computer Science.

Joseph M. Kirshtein, of Silver Spring, Md.; B.S. Drexel University, 1983. Electrical Engineering.

Neil A. Kleinberg, of Mitchellville, Md.; B.E.S. The Johns Hopkins University, 1982. Computer Science.

William Philip Knopf, of Columbia, Md.; B.S. Villanova University, 1981; M.S. Drexel University, 1983. Computer Science.

Louis J. Konopelski, of Washington, D.C.; B.S. Massachusetts Institute of Technology, 1982. Computer Science.

Kenneth William Koontz, of Columbia, Md.; B.S. University of Maryland, 1982. Computer Science.

Uri L. Kops, of Baltimore, Md.; First Rabbinical Degree, Rabbinical College of Long Island, 1983. Computer Science.

Daniel Nissan Korobkin, of Baltimore, Md.; B.A. Ner Israel Rabbinical College, 1983. Computer Science.

Karen R. Massey Kotewicz, of Columbia, Md.; B.S. West Virginia Wesleyan College, 1980. Computer Science.

James E. Kramb, of Columbia, Md.; B.E.E. University of Dayton, 1982. Electrical Engineering.

Andrew F. Kristovich, II, of Columbia, Md.; B.S. Capital Institute of Technology, 1974; M.S. The Johns Hopkins University, 1979. Technical Management.

Richard Ide Kuehn, of Baltimore, Md.; B.S. Loyola College, 1981. Electrical Engineering.

John J. Kujawa, of Ellicott City, Md.; B.S. Drexel University, 1979. Computer Science.

Maier Isaac Kutoff, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1984. Computer Science.

Nathan Lacy, of Annapolis, Md.; B.S. Eastern Washington University, 1975; M.S., 1977. Technical Management.

James Taylor Lanier, of Columbia, Md.; B.S. Clemson University, 1977. Computer Science.

Paul Lawrence Laugesen, of Fort Meade, Md.; B.S. Kansas State University, 1983. Numerical Science.

Nancy Kathleen Lawler, of Baltimore, Md.; B.A. St. Louis University, 1966. Computer Science.

Si C. Le, of Hyattsville, Md.; B.S. University of Maryland, 1980. Electrical Engineering.

Javier Lecha, of College Park, Md.; B.S. University of Puerto Rico, 1983. Electrical Engineering.

Kenneth Kun Lee, of Alexandria, Va.; B.E.S. The Johns Hopkins University, 1983. Electrical Engineering.

Kik Yui Lee, of Washington, D.C.; B.S. Lehigh University, 1984. Electrical Engineering.

Thomas William Lefevere, of Bowie, Md.; B.S. Rutgers University College of Engineering, 1973. Computer Science.

Robyn Lynn Legrys, of Columbia, Md.; B.A. Loyola College, 1979. Computer Science.

Tina M. Lentscher, of Columbia, Md.; B.S. University of Maryland, 1982. Computer Science.

Barbara Dwyer Leon, of Ellicott City, Md.; B.S. Mary Washington College, 1981. Computer Science.

Anita Y. Leung, of Silver Spring, Md.; B.S. Chinese University of Hong Kong, 1965; M.A. Sam Houston State College, 1969. Computer Science.

Sheryl Levin, of Takoma Park, Md.; B.S. University of Maryland, 1976. Computer Science.

Henry L. Lewkowicz, of Owings Mills, Md.; B.S. Loyola College, 1973. Technical Management.

Nelson Anshy Li, of Rockville, Md.; B.E. Chung Yuan Christian College, 1975; M.S. University of Missouri, 1980. Computer Science.

Chin-Ho Lien, of Silver Spring, Md.; B.S. National Tsing-Hua University, Taiwan, 1977; M.S. University of New Mexico, 1981. Computer Science.

Chie Lin, of Rockville, Md.; B.S. National Taiwan Normal University, 1973; M.S. University of Florida, 1981. Computer Science.

Hueilin Yao Lin, of Rockville, Md.; B.A. Tamkang University, 1977. Computer Science.

Roscow C. Lin, of Vienna, Va.; M.S. University of Pittsburgh, 1980; Ph.D., 1982. Computer Science.

Jacquelyn Smith Lineberger, of Bowie, Md.; B.A. Wesleyan College, 1961. Computer Science.

Christopher Charles Linz, of Baltimore, Md.; B.S. Towson State University, 1984. Computer Science.

Wei-Liang Liu, of Gaithersburg, Md.; B.S. National Taiwan University, 1974. Computer Science.

Ronald Hugh Logan, of Baltimore, Md.; A.A. Catonsville Community College, 1979; B.E.T. Rochester Institute of Technology, 1982. Computer Science.

Dawn Fagan Lowe, of Laurel, Md.; A.A. Prince George's Community College, 1979; B.S. University of Maryland, 1982. Computer Science.

Chii-der Luo, of Columbia, Md.; B.S. National Taiwan University, 1977; M.S. West Virginia University, 1982. Computer Science.

Kathy Lynne Lyons, of Gaithersburg, Md.; B.S. State University of New York, 1979; M.S., 1981. Computer Science.

Robert Alan Mack, of Laurel, Md.; B.A. University of Wisconsin, 1978; M.S., 1980. Computer Science.

Nancy Carol Magnusson, of Laurel, Md.; B.S. Pennsylvania State University, 1973. Computer Science.

Mahendra K. Mallick, of Reading, Mass.; Ph.D. State University of New York, 1981.

John N. Mangat-Rai, of Gaithersburg, Md.; A.S.E.T. Northern Essex Community College, 1981; B.S.E.T. Capital Institute of Technology, 1982. Electrical Engineering.

Thomas Allen Maricle, of Rockville, Md.; B.S.C.E. University of Santa Clara, 1972. Computer Science.

Daniel Alexander Markowski, of Baltimore, Md.; B.S.E. The Johns Hopkins University, 1982. Electrical Engineering.

Eugene George Marquard, of Baltimore, Md.; B.S.E. Virginia Polytechnic Institute and State University, 1980. Electrical Engineering.

William Martin, of Laurel, Md.; B.A. University of Kansas, 1974; B.S., 1982. Computer Science.

Eric Charles Marzock, of Burtonsville, Md.; B.S. Indiana University of Pennsylvania, 1984. Computer Science.

Christian Floyd Mascaro, of Bowie, Md.; B.S. University of Maryland, 1981. Computer Science.

Salvatore Joseph Mastellone, of Reisterstown, Md.; B.S. Loyola College, 1981. Computer Science.

Teddy Ray Maynard, of Riva, Md.; B.S. West Carolina University, 1969; M.S. Naval Postgraduate School, 1977. Numerical Science.

Aileen Ann McCarthy, of Glen Burnie, Md.; B.S. State University of New York at Albany, 1983. Computer Science.

Kevin Joseph McClaning, of Columbia, Md.; B.S.E. University of Akron, 1982. Electrical Engineering.

Vincent Dennis McGeehan, of Columbia, Md.; B.S. Marquette University, 1984. Electrical Engineering.

John Andrew McKinney, Jr., of Edgewater, Md.; B.S. University of South Florida, 1983. Electrical Engineering.

Michael Hayden McMillian, of Star City, W.Va.; B.S. Marshall University, 1981.

Kevin G. McPhilamy, of Hyattsville, Md.; B.S. Central Michigan University, 1983. Computer Science.

Brian Edward McSweeney, of Elkridge, Md.; A.S. Broome Community College, 1979; B.S. Lebanon Valley College, 1981. Computer Science.

Kimberly Sue Meade-Cobun, of Baltimore, Md.; B.A. University of Maryland Baltimore County, 1975. Computer Science.

David William Mearns, of Owings Mills, Md.; B.A. The Johns Hopkins University, 1977. Computer Science.

Barbara E. Magrogan Michael, of Baltimore, Md.; B. S. Towson State University, 1981. Computer Science.

Daniel J. Mihelich, of Fort Meade, Md.; B.S. Creighton University, 1967. Technical Management.

Russell Delbert Mikel, of Columbia, Md.; B.A. Eckerd College, 1975. Computer Science.

Jeanne Anne Miles, of Columbia, Md.; B.S. University of Maryland, 1966. Computer Science.

Anthony Glenn Miller, of Ellicott City, Md.; B.S. University of Kentucky, 1983. Numerical Science.

Jeffrey A. Miller, of Ellicott City, Md.; A.A. Catonsville Community College, 1981; B.S. Virginia Polytechnic Institute and State University, 1983. Computer Science.

Cecelia A. Mitchell, of Columbia, Md.; B.S. Paine College, 1972. Computer Science.

Kevin Jude Mitchell, of Pittsburgh, Pa.; B.S. Carnegie-Mellon University, 1983.

Daniel Morgan, of Sterling, Va.; B.S.E.E.T. Capitol Institute of Technology, 1976. Electrical Engineering.

David M. Morgereth, of Silver Spring, Md.; B.S. University of Maryland, 1980. Computer Science.

Margaret Melissa Morton, of Laurel, Md.; B.S. University of Alabama, 1984. Numerical Science.

John Fredric Mosley, of Columbia, Md.; B.S. University of Maryland, 1973. Computer Science.

Gary George Mrenak, of Gaithersburg, Md.; B.S. Carnegie Mellon University, 1972. Computer Science.

Mary Virginia Muir, of Dayton, Md.; B.S. University of Toronto, 1959. Computer Science.

Michael Christopher Neely, of Arnold, Md.; B.S. University of Virginia, 1979. Computer Science.

Donald E. Nelson, of Aberdeen Proving Grounds, Md.; B.S. California Polytechnic State University, 1983. Computer Science.

Sharon Linda Nelson, of Columbia, Md.; B.S. Universitv of Maryland, 1981. Computer Science.

Laura Therese Nesbitt, of Columbia, Md.: B.A. College of Notre Dame, 1979. Computer Science.

Robb W. Newman, of Ashton, Md.; B.S. Cornell University, 1965; M.S., 1966; M.S. The Johns Hopkins University, 1978; M.A.S., 1982. Computer Science.

Steven S. Ng, of Ellicott City, Md.; B.S. Polytechnic Institute of New York, 1981. Electrical Engineering.

Quang Hong Nguyen, of Laurel, Md.; B.S. University of Ottawa, 1983. Electrical Engineering.

Thuylan Thi Nguyen, of Gaithersburg, Md.; B.S. University of Pittsburgh, 1983. Computer Science.

Joseph Arieh Nord, of Baltimore, Md.; B.S. University of Maryland, 1974. Computer Science.

Paul R. Norton, of Millersville, Md.; B.A. State University of New York, 1982. Computer Science.

Cynthia Rohn Oberg, of Gaithersburg, Md.; B.S. University of Delaware, 1981. Computer Science.

Dorit Debora Ocheret, of Rego Park, N.Y.; B.S. Brown University, 1983. Computer Science.

Christian Victor O'Keefe, of Vicenza, Italy. Applied Physics.

Everett Houston Oliver, II, of Columbia, Md.; B.S. United States Naval Academy, 1978. Computer Science.

Kevin Patrick O'Rourke, of Columbia, Md.; B.S.E. Drexel University, 1982. Electrical Engineering.

Margot H. Osborne, of College Park, Md.; B.A. Washington University, 1975. Computer Science.

James Kenneth Osterritter, of Arnold, Md.; B.S. University of Pittsburgh, 1975. Electrical Engineering.

Karen L. Overbeke, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1983. Computer Science.

Sarah E. Palmquist, of Annapolis, Md.; B.A. Ohio Wesleyan University, 1974. Computer Science.

Paul Emile Panneton, of Laurel, Md.; B.S.E. University of Maryland, 1981. Electrical Engineering.

Lawrence P. Park, of Baltimore, Md.; B.A. The Johns Hopkins University, 1981. Computer Science.

Paul Wilmer Parlette, of Clarksville, Md.; B.A. Western Maryland College, 1983. Computer Science.

Pamela Sue Pattison, of Columbia, Md.; B.S. Pennsylvania State University, 1983. Computer Science.

Randy James Paul, of Glenn Dale, Md.; B.S. Rochester Institute of Technology, 1978. Computer Science.

Ronald Lee Peeples, of Ellicott City, Md.; B.S.E. The Johns Hopkins University, 1976. Computer Science.

Martin Lyle Perrine, of Columbia, Md.; B.S. Michigan State University, 1984. Electrical Engineering.

Jane Sander Pierce, of Reston, Va.; B.S. University of Minnesota, 1980. Computer Science.

Joanne Marie Piotrowski, of Gaithersburg, Md.; B.S. Bucknell University, 1981. Computer Science.

Mark G. Pohl, of Baltimore, Md.; B.A. Towson State Univerity, 1978. Computer Science.

David A. Poltorak, of Annapolis, Md.; B.S. University of Virginia, 1984. Electrical Engineering.

William C. Poulin, of Frederick, Md.; B.S. Catholic University of America, 1979. Electrical Engineering.

Gerard Richard Preziotti, of Columbia, Md.; B.S. Brown University, 1977; M.S. The Johns Hopkins University, 1981. Technical Management.

James Edgar Price, Jr., of Westminster, Md.; B.S. Case Institute of Technology, 1974. Technical Management.

Andrew William Protigal, of Elkridge, Md.; B.S. University of Hartford, 1983. Computer Science.

Mark J. Raginsky, of Columbia, Md.; B.S.M.E. Lehigh University, 1982. Computer Science.

Timothy Rand, of Glenn Dale, Md.; B.S. State University of New York at Buffalo, 1979. Electrical Engineering.

Deanna R. Ravenscraft, of Silver Spring, Md.; B.S. University of Maryland, 1982. Electrical Engineering.

David Everman Ray, of Cheverly, Md.; B.S. University of Chicago, 1982. Numerical Science.

Brooke R. Rector, of Greenbelt, Md.; B.S. Duke University, 1984. Computer Science.

Matthew J. Reinhart, of Millersville, Md.; B.S. University of Maryland, 1984. Electrical Engineering.

Richard Reis, of Silver Spring, Md.; M.S.E. California State University, 1974. Computer Science.

Paula J. Reitan, of Columbia, Md.; B.S. United States Naval Academy, 1985. Computer Science.

Kurt A. Rice, of Laurel, Md.; B.S. Drexel University, 1983. Electrical Engineering.

Gerald O. Riggleman, of Towson, Md.; B.A. Eastern Nazarene College, 1957; M.A. University of Detroit, 1961. Computer Science.

Kirk William Rittenhouse, of Laurel, Md.; B.S. University of Virginia, 1982. Computer Science.

Ira Uri Rodens, of Olney, Md.; B.S. Drexel University, 1975. Computer Science.

Joyce Weglein Rogalski, of Annapolis, Md.; B.S. Virginia Polytechnic Institute and State University, 1974. Technical Management.

Robert David Rogalski, of Annapolis, Md. Technical Management.

Renato Frederick Roscher, of Ellicott City, Md.; B.S.E. Lehigh University, 1974. Computer Science.

Daniel Howard Rose, of Sykesville, Md. Computer Science.

Caryl Lynn Rowland, of Laurel, Md.; B.S. University of Maryland, 1972. Technical Management.

Shahed Rowshan, of Timonium, Md.; B.S. University of Pittsburgh, 1983. Computer Science.

Frank Paul Rucky, of Millersville, Md.; M.S. University of Maryland, 1978. Computer Science.

Charles Anthony Salvaggio, of Laurel, Md.; B.S. Louisiana State University, 1983. Computer Science.

Donald Richard Same, of Ellicott City, Md.; B.B.A. University of Michigan, 1975; B.S.E., 1981. Computer Science.

Bret R. Schneider, of Laurel, Md.; B.S. University of Akron, 1983. Electrical Engineering.

Mark S. Schneider, of Jessup, Md.; B.A. Wake Forest University, 1980; M.A. Marquette University, 1982. Computer Science.

Paul W. Scholz, of Columbia, Md.; B.S. Pennsylvania State University, 1983. Computer Science.

Douglas Dean Schweizer, of Laurel, Md.; B.S.E.E. Ohio State University, 1983. Computer Sciences.

Dianna A. Scott, of Laurel, Md.; B.A. Grambling State University, 1978. Computer Science.

Indrani R. Seetharam, of Greenbelt, Md.; B.S. All India Institute of Speech and Hearing, 1979. Computer Science.

Howard W. Shaw, of Glen Burnie, Md.; B.S., B.A. Rutgers University, 1983. Computer Science.

Teresa Herman Shea, of Ellicott City, Md.; B.E.E. Georgia Institute of Technology, 1981. Electrical Engineering.

An-Min Shen, of Potomac, Md.; B.S. Chung Yuan University, Taiwan, 1973; M.S. University of Missouri, 1979. Computer Science.

Don H. Sheppard, of Catonsville, Md.; B.M.E. Georgia Institute of Technology, 1976; M.S., 1978. Computer Science.

Steven Pham Sherper, of Baltimore, Md.; B.S. Swarthmore College, 1983. Electrical Engineering.

Theodore Price Shertzer, of Pasadena, Md.; B.S. Clemson University, 1966. Computer Science.

Wilfred Henry Shields, of Arnold, Md.; B.S. Virginia Polytechnic Institute and State University, 1978; M.S., 1979. Computer Science.

Hubert Shih, of Adelphi, Md.; B.S. University of Maryland, 1981. Computer Science.

In Baick Shin, of Silver Spring, Md.; B.S. University of Maryland, 1982. Computer Science.

David A. Silbergerg, of Laurel, Md.: B.S. University of South Carolina, 1983. Computer Science.

Brian E. Skutt, of Annapolis, Md.; B.S. United States Military Academy, West Point, 1978. Electrical Engineering.

Janice C. Smith, of Vienna, Va.; B.S. College of William and Mary, 1982. Computer Science.

Linda Nydam Smith, of Laurel, Md.; M.A. University of Michigan, 1975. Computer Science.

Mark Christopher Smith, of Baltimore, Md.; B.A. University of Maryland, 1981. Computer Science.

Russell M. Smith, Jr., of Springfield, Va.; B.S.E. Northwestern University, 1976. Electrical Engineering.

Steven A. Smith, of Wheaton, Md.; B.S. University of Maryland, 1976. Technical Management.

Thomas Lee Smith, of Edgewater, Md.; B.Tech., Pennsylvania State University, 1979. Electrical Engineering.

Gary H. Sniegowski, of Joppa, Md.; B.S.E. The Johns Hopkins University, 1978; M.S., 1982. Technical Management.

Krista Dorman Snyder, of Williamsport, Md.; B.A. Western Maryland College, 1981. Computer Science.

Andrew Jay Solomon, of Columbia, Md.; B.S. University of Maryland, 1983. Computer Science.

John Curtis Sommerer, of Silver Spring, Md.; B.S. Washington University, 1979; M.S., 1979. Applied Physics.

Stephen John Spano, of Silver Spring, Md.; B.S.C.E. Drexel University, 1975. Technical Management.

Nicholas J. Speciale, of Arnold, Md.; B.E. Manhattan College, 1983. Electrical Engineering.

Erwin Otto Sprunk, of Pasadena, Md.; B.S. Oakland University, 1982. Computer Science.

James W. Stadter, of Glenwood, Md.; B.S. Loyola College, 1983. Computer Science.

William Andrew Steffancin, of Pracut, Mass.; B.S. Rensselaer Polytechnic Institute, 1983. Electrical Engineering.

Kimberly Ann Stepien, of Columbia, Md.; B.S. University of Pittsburgh, 1983. Computer Science.

Christopher J. Stier, of Burtonsville, Md.; B.S. Purdue University, 1983.

Suzanne Ruth Stratton, of Baltimore, Md.; B.A. University of Maryland, 1979 and 1980. Electrical Engineering.

Grace Y. Su, of Gaithersburg, Md.; B.L.B. Fu-Jen Catholic University, 1968. Computer Science.

Thayamkulam N. Subramaniam, of Columbia, Md.; B.S. University of Madras, 1977. Computer Science.

George R. Subt, of Silver Spring, Md.; B.S.E.E. George Washington University, 1978. Computer Science.

Ann C. Sullivan, of Columbia, Md.; B.S. Worcester Polytechnic Institute, 1978. Electrical Engineering.

Greg Summers, of Beltsville, Md.; B.S. University of Michigan, 1977. Applied Physics.

William Henry Swift, of Gaithersburg, Md.; B.E.S. The Johns Hopkins University, 1983. Electrical Engineering.

Daniel Patrick Syed, of Washington, D.C.; B.S. University of Maryland, 1982. Computer Science.

Paul Joseph Tanenbaum, of Bel Air, Md.; B.S. University of Maryland, 1981. Computer Science.

Thomas Ray Taylor, of Columbia, Md.; B.S. University of Maryland, 1982. Computer Science.

Jenny S. Toung, of Towson, Md.; B.S. University of Pittsburgh, 1973; M.S. University of Maryland, 1979. Computer Science.

Paul Yesen Toung, of Towson, Md.; B.B.A. Fu-Jen University, 1967. Computer Science.

Aileen Tousignant, of Columbia, Md.; B.A. Siena College, 1981. Computer Science.

Rose Carmel Trasatti, of Jessup, Md.; B.S. Loyola College, 1984. Computer Science.

Holly A. Traxler, of Ellicott City, Md.; B.S. University of Illinois, 1983. Computer Science.

Thomas E. Troxel, of Elkridge, Md.; B.S. University of Akron, 1983. Electrical Engineering.

Victor Hsing-ji Tsai, of Burtonsville, Md.; B.S. National Cheng-Kung University, 1975; M.E. University of South Carolina, 1980. Computer Science.

Yea-Hwang J. Uang, of Silver Spring, Md.; Ph.D. University of Tennessee, 1977. Computer Science.

Kristan Bechtel Uebersax, of Pasadena, Md.; M.S. University of Maryland, 1977. Computer Science.

Ronald William Unnerstall, of Laurel, Md.; M.S.E.E. University of Illinois, 1963. Technical Management.

Karl F. Van Neste, of Rockville, Md.; B.S. University of Virginia, 1982. Computer Science.

John A. Vidal, of Glen Burnie, Md.; B.A. Linfield College, 1980. Applied Physics.

Lynne Sanders Vidmar, of Columbia, Md.; B.A. Western Maryland College, 1983. Computer Science.

John Patrick Vogel, of Woodstock, Md.; B.S. Towson State University, 1982. Electrical Engineering.

Paul Bryant Walton, of Silver Spring, Md.; B.S.E.N. Carolina State University, 1980. Computer Science.

David C. Wang, of Columbia, Md.; B.S. Tunga University, 1962; M.S. North Dakota State University, 1966; M.A. The Johns Hopkins University, 1970; Ph.D., 1973. Computer Science.

I-Heny Henry Wang, of Silver Spring, Md.; B.S. Fu-Jen Catholic University, Taiwan, 1969; M.S. University of Maryland, 1978. Computer Science.

George Thomas Warner, of Lititz, Pa. Electrical Engineering.

Robin Lynne Warren, of Laurel, Md.; B.S. Clemson University, 1982. Computer Science.

Andrew Bennett Weiss, of Silver Spring, Md.; B.S. University of Maryland, 1981. Computer Science.

John Davenport White, of Silver Spring, Md.; B.S. University of Maryland, 1982. Computer Science.

Katherine Stuart Wight, of Catonsville, Md.; B.A. Smith College, 1982. Numerical Science.

Richard Henry Williams, Jr., of Elkridge, Md.; B.S. Case Western Reserve University, 1982. Electrical Engineering.

James Roger Wills, of Germantown, Md.; B.S. Capitol Institute of Technology, 1983. Computer Science.

Robert John Wrede, of Falls Church, Va.; B.S. Davis and Elkins College, 1974; M.A. West Virginia University, 1976. Computer Science.

David Asher Wroblewski, of Baltimore, Md.; B.S. Washington University, 1981. Electrical Engineering.

Ping Wu, of Rockville, Md.; B.S.E. Chung-Cheung Institute of Technology, 1958; B.S.E.T. Capitol Institute of Technology, 1981. Electrical Engineering.

Myron Keith Wyche, of Silver Spring, Md.; M.S.E. Georgia Institute of Technology, 1982. Computer Science.

Sally Kehler Yates, of Columbia, Md.; B.S. Susquehanna University, 1960. Computer Science.

Khodarahm Yazdanipour, of Sterling, Va.; B.S. University of Maryland, 1983. Electrical Engineering.

Eugene N. Young, of Columbia, Md.; B.S. St. John's University, 1955. Computer Science.

Kaung-Ti Yung, of Silver Spring, Md.; B.S. Fu-Jen Catholic University, 1972; M.S. University of Wisconsin, 1979. Computer Science.

William Joseph Yurcik, of Columbia, Md.; B.S. University of Maryland, 1984. Computer Science.

Ronald John Zaleski, of Hyattsville, Md.; B.S. Drexel University, 1980. Electrical Engineering.

Antonietta Giammarco Zepp, of Silver Spring, Md.; B.S. State University of New York at Cortland, 1979. Computer Science.

David Wayne Zolet, of Ellicott City, Md.; B.E.S. The Johns Hopkins University, 1983. Electrical Engineering.

Robert Alan Zoon, of Kensington, Md.; M.E. New York University, 1970. Computer Science.

MASTERS OF SCIENCE IN ENGINEERING

in The G.W.C. Whiting School of Engineering

Martin Jay Appel, of Indianapolis, Ind.; B.S. University of Wisconsin, Milwaukee, 1985. Mathematical Sciences.

Saibal Banerjee, of Calcutta, India; B. Tech. Indian Institute of Technology, Kharagpur, India, 1982. Computer Science.

Daniel Jay Barrett, of San Francisco, Calif.; B.A. University of Pennsylvania, 1985. Computer Science.

Janet Elizabeth Bishop, of Graham, Texas; B.S. Case Western Reserve University, 1982; M.S., 1986. Geography and Environmental Engineering.

Leonidas Boutsikaris, of Athens, Greece; Diploma National University of Athens, Greece, 1981; M.S. University of Michigan, Ann Arbor, 1982. Electrical and Computer Engineering.

Joseph E. Cannon, of Philadelphia, Pa.; B.S. La Salle College, 1972. Electrical Engineering and Computer Science.

Nan Qian Lu Chen, of Chang-Chun, Jilin, China. Mechanical Engineering.

The Influence of Two Newtonian Fluids with Different Viscosity on Peristaltic Pumping.

Jeanne Chu, of Hong Kong; B.S. The Johns Hopkins University, 1986. Computer Science.

Costa Marc Colbert, of Los Angeles, Calif.; B.E.S. The Johns Hopkins University, 1984. Electrical Engineering and Computer Science.

Rapid Precision Measurement of Armature Shafts During Fabrication.

Arthur Leland Delcher, of Baltimore, Md.; B.A. Loyola College, 1973; M.A. The Johns Hopkins University, 1977. Electrical Engineering and Computer Science.

The Complexity of Exploiting Data-Dependency in Parallel Logic Programs.

David Ross Engstrom, of Oklahoma City, Okla.; B.S. United States Military Academy, 1977. Electrical Engineering and Computer Science.

Christopher Treadwell Field, of Newark, Del.; B.S. Guilford College, 1980. Electrical and Computer Engineering.

G. Charmaine Gilbreath, of Highland Park, Ill. Electrical Engineering and Computer Science.

Kenneth Alan Hirshman, of New Brunswick, N.J.; B.E.S. The Johns Hopkins University, 1985. Materials Science and Engineering.

The Effects of Microstructure, Surface Finish and Interfacial Bond Quality on Stoneley Interface Wave Propagation.

Murad Hizlan, of Istanbul, Turkey; B.S. Bogazici University of Turkey, 1985. Electrical and Computer Engineering.

Eugene Saul Ilton, of New York, N.Y. Earth and Planetary Sciences.

Xiaowei Jin, of Shenyang, China; B.S. Xi'an Institute of Technology, China, 1982. Computer Science.

Dynamic Load Balancing in a Distributed System Using a Receiver-Initiated Algorithm with File Migration.

Yan Ke, of Beijing, China. Computer Science.

Paul Kelley, of Baltimore, Md. Materials Science and Engineering.

Compound Droplet Production by Injection of Gas Bubbles into an Electrically Driven Jet.

P. William Kelsey, of Victorville, Calif.; B.S.E.E. University of Dayton, 1980. Electrical and Computer Engineering.

Hugh Robert Kern, of St. Louis, Mo.; B.S.C.S., B.S.E.E. Washington University in St. Louis, 1984. Electrical and Computer Engineering.

Elaine H. Koppelman, of New York, N.Y.; B.A. Brooklyn College, 1957; M.A. Yale University, 1959; Ph.D. The Johns Hopkins University, 1969. Electrical Engineering and Computer Science.

Application of the Cylindrical Algebraic Decomposition Algorithm to the Motion Planning Algorithm.

Mitchel Krasnopoler, of Pittsburgh, Pa.; B.S. University of Pennsylvania, 1979. Chemical Engineering.

Homogeneous Nucleation Rate Measurements for n-Nonane, n-Dodecane, and Toluene Using the Thermal Diffusion Cloud Chamber.

Thusitha Kumarasena, of Matara, Sri Lanka; B.Sc. University of Moratuwa, Sri Lanka, 1982. Civil Engineering.

Howard Scott Lazarus, of New York, N.Y.; B.S. United States Military Academy, West Point, 1978. Geography and Environmental Engineering.

Gary Lessing, of Baltimore, Md. Mathematical Science.

Vladimir Kluge Marianov, of Santiago, Chile; Certificate University of Chile, 1976. Electrical and Computer Engineering.

Charles Arthur McClain, of Lima, Ohio; B.S. Purdue University, 1982. Mechanical Engineering.

Measurement of the Residual Carbon on Cold-Rolled Sheet Steel Using Ultraviolet Photoelectron Emission in Air.

Deborah Marie Mechtel, of Baltimore, Md. Electrical and Computer Engineering.

David Conrad Neuman, of Baltimore, Md.; B.S. University of Rochester, 1981. Chemical Engineering.

Christian Victor O'Keefe, of Vicenza, Italy. Electrical and Computer Engineering.

Alexandria Patmanidou, of Athens, Greece; Certificate University of Patras, Greece, 1984. Mathematical Sciences.

Yelena Ybarra Piatnicia, of Moscow, U.S.S.R.; B.S. University of Dayton, 1985. Mathematical Sciences.

Lisa Marie Polyak, of Honolulu, Hawaii. Chemical Engineering.

A Numerical Model for Super-Critical Fluid Chromatography.

Henry William Prosser, of Milledgeville, Ga.; B.S. College of William and Mary in Virginia, 1984. Materials Science and Engineering.

Ultrasonic Characterization of the Nonlinear Elastic Properties of Unidirectional Graphite/Epoxy Composites.

Mohammed Rezaur Rahman, of Dhaka, Bangladesh; B.S. Bangladesh University of Engineering and Technology. Geography and Evironmental Engineering.

Michael S. Roussoglou, of Athens, Greece. Electrical and Computer Engineering.

Andrew John Seckner, of Oneida, N.Y.; B.S. University of Notre Dame, 1983. Chemical Engineering.

Experimental Studies of Supercritical Fluid Phase Behavior.

Claire Suzanne Shambaugh, of Binghamton, N.Y.; B.S. The Johns Hopkins University, 1985. Computer Science.

Richard Frederick Spiegel, of New York, N.Y.; B.E.S. The Johns Hopkins University, 1984. Mathematical Sciences.

Jerome Stephen Stefanko, of Washington, D.C.; B.S. United States Naval Academy, 1984. Chemical Engineering.

Photoinduced Nucleation Studies Using a Flow Diffusion Cloud Chamber.

Francis Joseph Sturm, of Teaneck, N.J.; B.S. United States Coast Guard Academy, 1979. Chemical Engineering.

Growth of Extremely Thermophilic Archaebacteria in a Hyperbaric Helium Bioreactor.

Edhi Sutjahjo, of Surabaya, Indonesia; Diploma, Institute of Technology, Bandung, Indonesia, 1979. Civil Engineering.

David Crowe Swanson, of New Haven, Conn.; B.A. Bates College, 1982. Mathematical Sciences.

Tristan-Jorge Balbino Tayag, III, of Baltimore, Md.; B.S. The Johns Hopkins University, 1986. Electrical and Computer Engineering.

David Harold Terry, of Birmingham, Ala. Electrical and Computer Engineering.

Zenon Michael Waclawin, of Columbia, Md.; B.E.S. The Johns Hopkins University, 1982. Mechanical Engineering.

A Preliminary Optical Technique for Dynamic Measurement of CTOD and CTOA.

Tsau-Yueh Joey Wang, of Taipei, Taiwan; B.S. National Taiwan University, 1981. Civil Engineering.

Tsunemi Watanabe, of Sapporo, Japan; B.A. Hokkaido University, Japan, 1983. Geography and Environmental Engineering.

Koji Yamada, of Tokyo, Japan; B.E. Waseda University, 1979; M.E. University of Tokyo, 1984. Geography and Environmental Engineering.

Weimin Zhao, of Kunming City, China; B.S. Tsinghua University, 1984. Electrical and Computer Engineering.

Mohammed A. Zikry, of Cairo, Egypt; B.S. University of Kansas, 1980; M.S. University of Akron, 1984. Mechanical Engineering.

A Three Dimensional Finite Element Analysis of Crack Growth for Aluminum CS-19.

MASTERS OF ARTS

in The G.W.C. Whiting School of Engineering

Maya Bhagat, of Calcutta, India; B.A. (equiv.) University of Delhi, India, 1983. Geography and Environmental Engineering.

Multinational Corporations: The Case of Pharmaceutical Industry in India.

Lewis Craig Linker, of Middle River, Md. Geography and Environmental Engineering.

Lynn Fryman Rothman, of Philadelphia, Pa.; B.A. Franklin and Marshall College, 1983. Geography and Environmental Engineering.

Daniel Serra, of Barcelona, Spain. Geography and Environmental Engineering.

MASTERS OF ARTS

in The School of Arts and Sciences

Irene Toni Abrams, of New York, N.Y.; B.A. University of Pennsylvania, 1985. Psychology.

Gabrielle Abramson, of Washington, D.C.; B.S. The Georgetown University, 1983. Mathematics.

Mojgan Aghai, of Teheran, Iran. Political Science.

United States-Iranian Relationship: The Evolution of Dependence.

Imtiaz Ahmad, of Golpalganj, India; B.A. Putna University, 1975; M.A. Jawaharlal Nehru University, 1980; M.P.H., 1983. Political Science.

Stuart Mark Anderson, of Port Angeles, Wash.; B.S. University of Washington, 1982. Mathematics.

Reiner Ansen, of Landau, West Germany. German.

Judith Ellen Kotlier Argon, of Boston, Mass.; B.A. Brandeis University, 1973; M.T.S. Harvard Divinity School, 1976. Near Eastern Studies.

Edward Thanaraj Asirvatham, of Sivakasi, India; B.Sc. Madurai University, 1975; M.Sc., 1977. Chemistry.

Sarah Frances Begus, of Columbus, Ohio; B.A. Wells College, 1964. Political Science.

The Social Relations of Sexuality: Ideology, Consciousness, Sexual Practice and Domination.

Mary Ashley Bendall, of Richmond, Va.; B.A. Virginia Intermont, College, 1984. Writing Seminars.

The Need for Shoes.

Edith Ann Bershadsky, of Newark, N.J.; B.A. Smith College, 1977; M.A. The University of North Carolina at Chapel Hill, 1982. History.

Parvin Cawas Bharucha, of Bombay, India; B.A. University of Bombay, 1966; M.A. 1968; M.A. Unversität Heidelberg, West Germany, 1976. German.

Kendra Ann Biddick, of Minneapolis, Minn.; B.A. Earlham College, 1973; M.L.S. University of Maryland at College Park, 1977. Biology.

Donald Lynn Bird, of Liberal, Kan.; B.A. Mid America Nazarene College, 1978. History.

Paul Scott Bodine, of Madison, Wis.; B.A. University of Chicago, 1981. English.

The Eleusinian Mysteries and The Visionary Moment in THE CANTOS *of Ezra Pound.*

William David Brobst, of Williamsport, Pa.; B.S., M.S. Catholic University of America, 1980. Chemistry.

Sumiter Singh Broca, of Jullundur, India. Political Economy.

Daniel Laurence Buccino, of Washington, D.C. Humanities.

Ana Cecilia Campos-Aleman, of Caracas, Venezuela; B.A. University of Iowa, 1984. Political Science.

Venezuela, Elections and the Copre: A Pragmatic Dilemma?

W. Seth Carus, of La Salle, Ill.; B.A. The Johns Hopkins University, 1976. Political Science.

Conservative Innovation: The U.S. Navy and the Development of Fleet Air Defenses, 1919-1941.

Margaret Patricia Casey, of Galway, Ireland; B.A. National University of Ireland, 1978; M.A., 1980. Hispanic and Italian Studies.

Vikram Chandra, of New Delhi, India; B.A. Pomona College, 1984. Writing Seminars.
Red Earth and Pouring Rain.

Myong-Hun Chang, of Pusan, Korea; B.S. Cornell University, 1984. Political Economy.

Jie Chen, of Guangzhou, China. Mathematics.

Kun-Ming Chen, of Nantow, Taiwan; B.A. National Taiwan University, 1975; M.A. 1980. Political Economy.

Ning Chia, of Beijing, China; B.A. Beijing Normal University, 1981. History.

Jeffrey Robinson Childress, of Pasadena, Calif. Physics and Astronomy.

Lee-Anne Cirillo, of Cleveland, Ohio; B.A. College of Wooster, 1984. Hispanic and Italian Studies.

Robert Lowrey Content, of Tokyo, Japan; B.A. Pomona College, 1977; M.A. University of California at Irvine, 1983. Writing Seminars.
Easy Targets Nowadays.

Jacqueline Belle Courteau, of Bristol, Tenn.; B.A. Harvard College Radcliffe College, 1985. Writing Seminars.
New Technologies, New Risks.

Elisabeth Agnés Crean, of Honolulu, Hawaii; B.A. Yale College, 1985. History.
The Cultural Functions of Music in the Renaissance: Johannes Tinctoris in the COMPLEXUS EFFECTUUM MUSICES.

Carolyn Rose Crone, of Baltimore, Md.; B.A. Loyola College, 1983. Psychology.

Fidelma Mary Cullen, of Dublin, Ireland; B.A. University of Dublin, 1984. Philosophy.

Ann Marie Cummins, of Durango, Colo.; B.A. University of Oregon, 1978. Writing Seminars.
Neutral Zone.

Claudia Daheim, of Cologne, West Germany. History.
The Impact of Immigration on the Cuban Socioeconomic Development, 1899-1931.

Tristan Ayres Davies, of Denver, Colo.; B.A. Brown University, 1985. Writing Seminars.
Hot Springs.

Robert Charles Davis, of San Diego, Calif.; B.A. Stanford University, 1980. History.

Rafael Daza, of Madrid, Spain. Hispanic and Italian Studies.

Ingrid Christa Deckman, of York, Pa. Chemistry.

Mary-Ann Elisabeth del Marmol, of Boston, Mass.; Licencie Université Catholique de Louvain, Belgium, 1979. Earth and Planetary Sciences.

Donald Wayne Dickerson, of Cincinnati, Ohio; B.A. Ohio State University, 1981. Political Economy.

Michael Andrew DiConti, of Glendale, Calif.; B.A. Occidental College, 1980; M.B.A. University of California at Los Angeles, 1983. Political Science.
The Effects of Multinational Enterprises Upon Entreprenuerial Activity in Less Developed Nations: Brian Drain or Brain Gain?

Hoang Dothe, of Saigon, Viet Nam; B.A. Bridgewater College, Virginia. Chemistry.

Andrea Erdas, of Cagliari, Italy; Laurea Universita di Cagliari, 1983. Physics and Astronomy.

Roger Alan Farley, of Chicago, Ill.; B.A. The Johns Hopkins University, 1986. Writing Seminars.
Songs Along the Road.

Mary Elizabeth Ferraro, of West Point, N.Y.; B.A. Florida State University at Tallahassee, 1979. Writing Seminars.
Marathon.

Carl Baldwin Friedoff, of Pittsburgh, Pa.; B.S. University of Miami, 1981. Chemistry.

Thomas John Fryc, of Amsterdam, N.Y.; B.A. Union College, 1983. Philosophy.

El-Sayed Mohamed Gad, of Alexandria, Eqypt; B.A. Alexandria University, 1978. Classics.

Shemin Ge, of Taizhou, Jiangshou, China. Earth and Planetary Sciences.

Ann Margaret Geddes, of Little Falls, Minn.; B.A. Carleton College, 1982. History.

Dana Frederick Gillian, of Madison, Wis. History.
The Greif, Strouse, and Sonneborn Strikes of 1916: Ethnicity and Industrial Unionism in the Amalgamated Clothing Workers of America.

Michael Harris Ginsborg, of Los Angeles, Calif.; B.A. University of California at Los Angeles, 1985. Philosophy.

Thomas Gobel, of Wesenstedt, West Germany. History.
Becoming American: Ethnic Workers and the Rise of the CIO.

Daniel Alejandro Golombek, of Buenos Aires, Argentina. Physics and Astronomy.
Infrared Observations of Active Galactic Nuclei.

Erol Eliyau Gulcicek, of Istanbul, Turkey. Chemistry.

George Drake Guthrie, of Pasadena, Calif.; B.A. Harvard College, 1984. Earth and Planetary Sciences.

Carlos Jesus Gutierrez, of San Antonio, Texas; B.S. University of Dallas, 1983. Physics and Astronomy.

Virginia Lee Hagee, of St. Louis, Mo.; B.A. Vassar College, 1976; B.S. Western Kentucky University, 1979; M.S. Vanderbilt University, 1983. Earth and Planetary Sciences.

Heike Hahn, of Berlin, Germany. German.

Wulf Robert Halbach, of Hamburg, West Germany. German.

Kevin Paul Haney, of Dallas, Texas; B.A. University of Maryland Baltimore County, 1982. Philosophy.

Brian David Harral, of Longview, Texas; B.A. Rice University, 1985. Physics and Astronomy.

Douglas Allan Herr, of Lancaster, Pa.; B.A. Franklin and Marshall College, 1983. Physics and Astronomy.

David Martin Herzog, of St. Catherines, Ontario, Canada. Writing Seminars.
Single Spaced.

Gregory Dawson Hess, of Baltimore, Md.; B.A. University of California at Davis, 1984. Political Economy.

Pamela Elizabeth Hinkle, of Denver, Colo.; B.A. Connecticut College, 1981. Philosophy.

Janine Petra Holc, of Barrington, Ill.; B.A. Illinois State University, 1983. Political Science.
The Effects of Economics Reform on the Soviet-East European Relationship: A Comparison of the Polish and Hungarian Experiences in the 1970s.

Jeffrey Horn, of Easton, Pa. History.
Effect of Local Issues on the Demands in the Revolutionary CAHIERS of Rouen and Marseille.

Ying Huang, of Shanghai, China; B.S. Fudan University, China, 1982. Mathematics.

Stewart Mark James, of Minneapolis, Minn. Writing Seminars.
Disturbances in Attention.

Shanyu Ji, of Hu Zhou, China; B.S. East China Normal University, 1982. Mathematics.

Nancy Kaye Johnson, of Bethlehem, Pa.; B.A. Randolph-Macon Woman's College, 1970; M.Ed. Lehigh University, 1972. Writing Seminars.
Hunger, My Love.

Jeffrey Radin Kaiser, of Rockville, Md.; B.A. University of Chicago, 1984. Sociology.

Timothy Stewart Kelley, of Washington, D.C.;B.A. Hunter College, 1986. Writing Seminars.
"Brushfire Wars" and Other Strife.

David Royal Kellogg, of Pittsburgh, Pa.; B.A. Wake Forest University, 1986. Writing Seminars.
Birder.

Ashfaque Hasan Khan, of Dacca, Pakistan; M.A. McMaster University, Canada, 1978. Political Economy.

Keekyung Kim, of Seoul, Korea; B.S. Yonsei University, 1981. Chemistry.

Bernard Francis Kirby, of Baltimore, Md.; B.A. Loyola College, 1986. Writing Seminars.
Small Sacraments.

Celia Marion Kohn, of Wilton, Conn.; B.A. The Johns Hopkins University, 1985. Earth and Planetary Sciences.

Richard Lynn Kramer, of Dubuque, Iowa. Mathematics.

Philip Thomas Kronebusch, of Winona, Minn. Political Science.
Morals and Politics in Cicero, Rousseau, and Kant.

Mary Tsung-Hui Lee, of Boston, Mass.; B.A. Vassar College, 1978; M.A. Antioch University, 1980. Sociology.

Suiwah Edna Leung, of Hong Kong; B.A. University of New South Wales, Australia, 1969; M.A., 1977. Political Science.

Timothy Austin Livengood, of Indianapolis, Ind.; B.A. Washington University in St. Louis, 1984. Physics and Astronomy.

Carolyn Wade Loring, of Honolulu, Hawaii; B.A. St. John's College, Annapolis, 1977. Philosophy.

Thomas Dan-Olof Marmefelt, of Kungälv, Sweden. History.
Government Bureaucracy, Economic Growth and the Coordination of Science and Technology Policy: The United States and Sweden, 1945-1973.

Brenda Carla Martin, of Caracas, Venezuela; B.S. University of Maryland College Park, 1979. Psychology.

George A. Martin, of Columbia, Md. History.
The Creation of Migrant Labor System: Colonial and Capitalism in Kenya, 1870-1930.

Carlos Martinez, of Balboa, Spain. History.
Reconsidering the Problem of Collective Nobility in Vizcaya.

Neill M. Matheson, of Northampton, Mass.; B.A. Reed College, 1983. English.

Zacharias Vasilios Mavrophilipos, of Baltimore, Md. Chemistry.

Susan Elizabeth May, of Wilmington, Del.; B.S. University of Virginia, 1985. Physics and Astronomy.
A Programmable Pulse Generator of Pulsed Nuclear Magnetic Resonance Experiments.

Stuart Herman Mayer, of New York, N.Y. Physics and Astronomy.

Richard Dean McCullough, of Dallas, Texas; B.S. University of Texas at Dallas, 1982. Chemistry.

Stephen James McKenna, of Mineola, N.Y.; B.A. Duke University, 1986. Writing Seminars.
Four Stories.

Eileen McWilliam, of Nassau, Bahamas; B.A. College of William and Mary, 1981. English.

Michael James Mendosa, of Boise, Idaho; B.A. California State University at Fresno, 1986. Writing Seminars.
The Hotel of Two Lions.

Jacques Claude Midgeon, of Baltimore, Md.; B.A. Dartmouth College, 1984. History of Art.

Joanna M. Miller, of Tacoma, Wash.; B.A. California State University at Fresno, 1981. Writing Seminars.
The Adulterated Foods We Eat and the Government Agencies That Permit Them.

Rafael Angel Mozo, of Camaguey, Cuba. Sociology.

Yoshiyuki Muchiki, of Fukuoka, Japan; B.A. Hosei University, Japan, 1979. Near Eastern Studies.

Paul Nolte, of Geldern, West Germany. History.

Political Culture and Urbanization: Municipal Annexations and Reorganizations in Germany and the United States, 1850-1930.

Sadat Obol, of Xinjiang, The People's Republic of China; B.A. Xinjiang University, 1982. Sociology.

Molly Anne Olds, of Downey, Calif.; B.A. San Jose University, 1980. Mathematics.

Diana Stockton Parker, of Washington, D.C. Biology.

Virginia Payne-Barry, of Dublin, Ireland. History.

Giovanni Perasso, of Alba, Italy. Political Economy.

Stephen Phillips, of Brighton, England. Earth and Planetary Sciences.

Richard Michael Rambuss, of Buffalo, N.Y.; B.A. Amherst College, 1983. English.

James J. Roche, of Mountainside, N.J.; B.A. Gettysburg College, 1985. Chemistry.

Cristina Romani, of Rome, Italy; Certificate University of Rome, 1983. Psychology.

Eric Paul Roorda, of Harrisville, Mich.; B.A. College of William and Mary, 1983. History.

Constance Rosemont, of Lexington Park, Md.; B.A. The Johns Hopkins University, 1985. Humanistic Studies.

Margaret Ellen Russett, of New Haven, Conn.; B.A. Yale College, 1983. English.

Amir Saeed-Tehrani, of Tehran, Iran; B.A. George Washington University, 1981; M.A. American University, 1984. Political Economy.

David James Sahnow, of Providence, R.I.; B.S. California Institute of Technology, 1984. Physics and Astronomy.

Diane Carroll O'Connor Salazar, of Colorado Springs, Colo.; B.S. University of Colorado, 1983. Chemistry.

Gino M. Salituro, of Kenosha, Wis. Chemistry.

Shiva Sayeg, of Lancaster, Pa.; B.A. Franklin and Marshall College, 1983. Political Economy.

Jodi Grace Scarlata, of Fairfax, Va.; B.A. College of William and Mary, 1983. Political Economy.

Matthias Schlingmann, of Gadderbaum/Bielefeld, West Germany. History.

Preconditions and Precursors of Protest: Student Protest at Columbia University between 1965-1968.

Vicki Lu Schneider, of Belleville, Ill.; B.A. William Jewel College, 1983. French.

Laurie Janet Schorr, of Cupertino, Calif.; B.A. Carnegie-Mellon University, 1986. Writing Seminars.

For the Deliberately Lost.

Laurence Catherine Selim, of Washington, D.C.; B.S. Georgetown University, 1984. French.

Robert Louis Singleton, Jr., of Johnson City, Tenn. Physics and Astronomy.

Edward Barry Skolnick, of Atlantic City, N.J.; B.A. Dartmouth College, 1968. Biology.

Kevin John Sottak, of Fort Knox, Ky.; B.A. The Johns Hopkins University, 1986. Writing Seminars.

The Glazed Window.

Ana Aspras Steele, of Washington, D.C.; B.A. Ohio University, 1971. Hispanic and Italian Studies.

Malina Stefanovska, of Beograd, Yugoslavia; Licence es Lettres, Université des Langues at Lettres de Grenoble, France, 1973; Licence d'Enseignement, 1973; M.A. University of Oregon, 1984. French.

Karla Maria Steffens, of Highland Park, Ill.; B.A. Southern Illinois University at Carbondale, 1984. Writing Seminars.

Are You Friends With Your Refrigerator? Or Is There a Coffin In Your Kitchen?

Mark Jackson Stevens, of Cincinnati, Ohio. Physics and Astronomy.

Amy Lord Storrow, of New London, Conn.; B.A. Georgetown University, 1985. Writing Seminars.

The Spotted Cow's Lament: The Way She Ate Salad Was Disgusting.

Hiroko Takayanagi, of Nagoya, Japan; B.S. Towson State University, 1984. Political Science.

Presidential Leadership on Social Issues: A Study of the School Prayer Amendment.

Jesus Tenajas, of Madrid, Spain. Earth and Planetary Sciences.

Rafael Alberto Tenorio, of Lima, Peru; Certificate Universidad de Lima, Peru, 1984. Political Economy.

Peter Alan Thompson, of Farmington, Conn.; B.S. Stanford University, 1985. Physics and Astronomy.

Wendy Thompson, of Springfield, Vt.; B.A. University of California at Santa Cruz, 1984. History of Art.

Inmaculada Toscano, of Cadiz, Spain. Hispanic and Italian Studies.

Jonathan Alexander Treitel, of London, England; B.A. Oxford University, 1981; M.S.. Stanford University, 1984. Writing Seminars.

Relativity.

Chi-Yuan Tsai, of Changhua, Taiwan; B.A. National Taiwan University, 1969; M.A., 1973; M.A. State University of New York at Binghamton, 1978. Political Economy.

Ming-Yen Tseng, of Nantou, Taiwan; B.A. Fu Jen Catholic University, Taiwan, 1976; Master of Laws, National Chengchi University, Taiwan, 1979. Political Economy.

Thomas Paul Urbach, of Portola Valley, Calif.; B.A. University of California at San Diego, 1983. Philosophy.

Jailaxmi Vithal Vartikar, of Waynesburg, Pa.; B.A. University of Pennsylvania, 1982. Chemistry.

Antonio Vela, of Madrid, Spain. Earth and Planetary Sciences.

William Viqueira, of Jersey City, N.J. Political Economy.

The Pricing of Common Stock Issues: 1978-1985.

Nancy Louise Wagner, of York, Pa.; B.S. Pennsylvania State University, 1977; M.S. George Washington University, 1980. Political Economy.

Rhett Louis Waldman, of Baltimore, Md.; B.A. University of Virginia, 1986. Writing Seminars.

A History of ABM Systems, A Biography of Edward Teller, and Three Book Reviews.

Patricia Ann Watson, of Norwalk, Conn. History.

Aron Weller, of Minneapolis, Minn.; B.A. Bar-Ilan University, Israel, 1984. Psychology.

Nicholas Gomez Wey, of Bogota, Columbia; B.A. Brandeis University, 1986. Writing Seminars.

Other Tales of Verbal Defection.

Kim Elizabeth Wheatley, of Bath, England; B.A. Newnham College, Cambridge, England, 1982; M.A. York University, England, 1984. English.

Mark Jerdone Wiechmann, of Westport, Conn.; B.A. Hamilton College, 1975; M.A. Indiana University, 1980. Earth and Planetary Sciences.

Charles Andrew Wilkins, of Long Beach, Calif. Psychology.

Abel Gordon Wolman, of Washington, D.C.; B.A. The Johns Hopkins University, 1985. Mathematics.

Myung-bae Yeom, of Seoul, Korea; B.A. Seoul University, 1979. Political Economy.

Stephen Adams Young, of Baltimore, Md.; B.A. Yale College, 1976. History.

Stephen Edward Zepf, of Cincinnati, Ohio. Physics and Astronomy.

DOCTORS OF EDUCATION

in The School of Continuing Studies

Nancy Cash Gurtner, of Cockeysville, Md.; B.E. University of Buffalo, 1959.

Discriminant Validity of the Woodcock-Johnson Psycho-Educational Battery, California Achievement Tests, and Metropolitan Readiness Test for Adequate and Problem Readers.

Lewis Byers Jackson, of Columbia, Md.; B.A. University of North Carolina, 1971; M.S. The Johns Hopkins University, 1979.

Initial Validation of a Theory-Based Instrument for the Measurement of Communicative Competence in Persons with Severe Communication Impairments.

Gloria Maria de Perignat Lane, of Baltimore, Md.; B.A. Towson State University, 1977; M.S. The Johns Hopkins University, 1980.

Comparison of Manual Guidance Only and Manual Guidance Plus Verbal Prompts Strategies with Students Who Are Blind and Severely Mentally Retarded..

Frances Alena Stillman, of Annapolis, Md.; M.Ed. Temple University, 1969.

Psychological Responses of Surviving Spouses of Public Safety Officers Killed Accidentally or Feloniously in the Line of Duty.

DOCTORS OF MUSICAL ARTS

in The Peabody Conservatory of Music

Jed Adie Galant, of Oakland, Calif.; B.M. Peabody Conservatory of Music, 1978; M.M., 1980. Piano.

The Solo Piano Works of Frank Bridge.

Barry David Goldsmith, of Flushing, N.Y.; B.M. Peabody Conservatory of Music, 1976; M.M. Indiana University, 1978. Piano.

A Style Analysis of the Piano Compositions and Two Works for Violin and Piano by Lazzare Saminsky.

Thomas Hecht, of Baltimore, Md.; B.M. Oberlin Conservatory of Music, 1982; M.M. Peabody Conservatory of Music, 1984. Piano.

Irene Weiss Peery, of Provo, Utah; B.M. Juilliard School, 1965; M.S., 1969. Piano.

George Boyle: Pianist, Teacher, Composer.

Blair Woodruff Pethel, of Greensboro, N.C.; B.M. Greensboro College, 1981; M.M. Peabody Conservatory of Music, 1982. Piano.

Keith Emerson: The Emergence and Growth of Style, A Study of Selected Works.

Janet E. Seitzer, of West Chester, Pa.; B.M. West Chester University of Pennsylvania, 1981; M.M. Peabody Conservatory of Music, 1983. Piano.

The Solo Piano Works of Jack Beeson.

DOCTORS OF SCIENCE

in The School of Hygiene and Public Health

Amy Dryman, of New York, N.Y.; B.A. Yale University, 1981. Mental Hygiene.

An Epidemiologic Study of Psychiatric Distress and Alcohol Use.

David Jeffrey Fryauff, of Somerville, N.J.; B.S. Wagner College, 1975; M.S. Rutgers University, 1979. Immunology and Infectious Diseases.

Comparative Studies of Vector Blackflies and Onchocerciasis Transmission in the Firestone Rubber Plantation at Harbel, Liberia.

Julia Bauder Hidalgo, of Hollister, Calif.; B.A. University of California at Santa Cruz, 1974; M.S.W. San Jose State University, 1977; M.P.H. University of California at Berkeley, 1978. Health Policy and Management.

Treatment of Depression by U.S. Primary Care Physicians.

Robert Gerald LaForge, of Dracut, Mass.; B.A. University of Massachusetts, 1977. Health Policy and Management.

Misplaced Priorities: A History of Federal Alcohol Regulation and Public Health Policy.

James Kenneth Lovelace, of Spartanburg, S.C.; B.S. Wofford College, 1970; M.S. Tulane University, 1972. Immunology and Infectious Diseases.

Studies on the Extracellular Acid Phosphatase of Leishmania Donovai.

Iris Elizabeth Pettigrew, of Baltimore, Md.; B.S. University of Maryland, 1973; M.S., 1977. Maternal and Child Health.

Maternal Role Satisfaction, Social Support Systems and Child Health Care Utilization.

Victor Paul Raymond, of Washington, D.C.; B.A. University of Missouri, 1969. Health Policy and Management.

Delivery of Mental Health Aftercare Services in a Rural Setting.

Aileen Butler Rothbard, of Cheltenham, Pa.; B.A. Temple University, 1964; M.H.S. The Johns Hopkins University, 1981. Health Policy and Management.

Management Study of Relative Productivity and Cost Efficiency in Mental Health Services.

Diane Rowland, of Washington, D.C.; B.A. Wellesley College, 1970; M.P.A. University of California at Los Angeles, 1973. Health Policy and Management.

Hospital Care for the Poor and Uninsured.

Patricia Ann St. Clair, of Berkeley, Calif.; B.S. California State University at Hayward, 1979. Maternal and Child Health.

Social Network Structure and Prenatal Care Utilization Behavior.

DOCTORS OF PUBLIC HEALTH

in The School of Hygiene and Public Health

Linda Emilie Berlin, of Coxsackie, N.Y.; B.S.N. University of Arizona, 1969; M.S. Albany Medical College, 1975. Maternal and Child Health.

The Contribution of Gardnerella vaginalis *to Puerperal Febrile Morbidity.*

A.T. Shafiq Ahmed Chowdhury, of Chittagong, Bangladesh; M.B.B.S. Chittagong Medical College, 1972; M.P.H. The Johns Hopkins University, 1976. International Health.

Determinants of Health Care Utilization in Rural Bangladesh.

Elenice Maria Ferraz, of Brasilia, Brazil; M.D. University of Minas Gerais, 1964; M.P.H. The Johns Hopkins University, 1970. Population Dynamics.

Determinants of Perinatal Mortality and Low Birth Weight in a City of Northeast Brazil.

Ataollah Matin, of Plano, Texas; M.D. Tehran University School of Medicine, 1957; M.P.H. The Johns Hopkins University, 1974. Population Dynamics.

Measuring Unmet Health Need for Family Planning Services, in the Developing Countries, Using Taiwan Data.

Suman Mehta, of New Delhi, India; M.B.B.S. All India Institute of Medical Sciences, 1965; M.Sc. London University, 1979. Population Dynamics.

Study of Induced Abortion in India.

Tippavan Nagachinta, of Bangkok, Thailand; M.D. Mahidol University, 1973; M.Sc. National University of Singapore, 1976; M.P.H. University of California at Berkeley, 1980. Epidemiology.

Risk Factors for Hospital-Acquired Surgical Wound Infection After Cardiac Surgery.

Sushil Kumar Sharma, of Baltimore, Md.; M.S.W. University of Delhi, 1968; M.P.H. The Johns Hopkins University, 1980; Ph.D. University of Maryland, 1985. Mental Hygiene.

Impact of Chronic Diseases on the Family Caregivers.

Keith Parker West, Jr., of Broomall, Pa.; B.S. Drexel University, 1971; M.P.H. The Johns Hopkins University, 1979. International Health.

Impact of Vitamin A Supplementation on Growth of Preschool Aged Indonesian Children: A Randomized Community Trial.

DOCTORS OF PHILOSOPHY

in The School of Hygiene and Public Health

Benjamin C. Amick, III, of Kensington, Md.; B.S. University of Maryland, 1978; B.A. 1978. Behavioral Sciences and Health Education.

Work-Related Psychosocial Stress, Technology and Health.

Alexander Edward Bakalian, of Beirut, Lebanon; B.E. American University of Beirut, 1979. Environmental Health Sciences.

Cercaricidal Properties of Halogens in Water.

Adolfo Correa-Villasenor, of Baltimore, Md.; M.Sc. University of California at San Diego, 1970; M.D. 1974; M.P.H. The Johns Hopkins University, 1981. Epidemiology.

A Case-Control Study of Mesothelioma in the Shipyard Industry.

Robert Crawford, of Olney, Md.; B.S. Wake Forest University, 1969; M.A., 1972. Immunology and Infectious Diseases.

Characterization of B Cell Stimulating Factor 1 as a Macrophage Activation Factor.

Brenda A. Woodyatt Cuccherini, of Woodbridge, Va.; B.S. George Washington University, 1978; M.P.H. The Johns Hopkins University, 1982. Environmental Health Sciences.

Association of Vitamin A with Esophageal Cancer.

Jonathan Robert Davis, of Atlanta, Ga.; B.A. Presbyterian College, 1976; M.S. Clemson University, 1980. Immunology and Infectious Diseases.

Comparative Study on the Vector Competence of Individual Members of the Simulium (Edwardsellum) damnosun *complex in the Harbel area of Liberia.*

Nancy Lavonne Eby, of Gordonville, Pa.; B.S.N. Goshen College, 1977; M.P.H. The Johns Hopkins University, 1983. Epidemiology.

Hormone Profiles in Women Treated for Cervical Cancer.

Gerald Moshe Feldman, of Denver, Colo.; B.Sc. The Hebrew University of Jerusalem, 1980. Immunology and Infectious Diseases.

Mechanisms of Organ-Specific Modulation of Schistosome Granuloma Development.

Martha Norton Hill, of Baltimore, Md.; B.S. The Johns Hopkins University, 1966; M.S.N. University of Pennsylvania, 1977. Behavioral Sciences and Health Education.

Diffusion of 1984 Hypertension Consensus Recommendations Among Clinicians.

Janet E. Hiller, of Melbourne, Australia; B.A. University of Melbourne, 1975; M.P.H., Hebrew University, 1981. Epidemiology.

A Case-Control Study of Endometriosis.

Jeanne G. Holzgrefe, of Washington, D.C.; B.A. Wellesley College, 1972; M.P.H. University of North Carolina at Chapel Hill, 1977; M.S., 1977. Epidemiology.

Smoking, Contraceptives, HPV and Vitamins A and C in Two Stages of Cervical Neoplasia.

Laurie J. Kelly, of Framingham, Mass.; B.S. University of Massachusetts, 1981. Environmental Health Sciences.

Factors that Affect the Recovery from Bronchoconstriction in the Canine Lung Periphery.

Penelope Mary Keyl, of Ellicott City, Md.; B.Sc. University of Bristol, 1967; M.Sc. The University of Calgary, 1980. Epidemiology.

Prognostic Importance of Idiopathic Mitral Valve Prolapse.

Rosanne Boldman McTyre, of Bethesda, Md.; B.A. Swarthmore College, 1974; M.P.H. Yale University, 1977. Epidemiology.

An Evaluation of the Short-Term Impact of a Health Risk Appraisal Instrument.

Sreekumar Menon, of New Delhi, India; M.B.B.S. Delhi University, 1976; M.D. All India Institute of Medical Sciences, 1979; M.P.H. The Johns Hopkins University, 1982. Epidemiology.

Rotavirus Diarrhea in White Mountain Apache Children—A Case Control Study.

Lawrence Hale Moulton, of Ann Arbor, Mich.; B.A. State University of New York at Buffalo, 1976; M.S. University of Texas School of Public Health, 1978. Biostatistics.

Bootstrapping Generalized Linear Models with Application to Longitudinal Data.

Robert Patrick Nugent, of Kansas City, Kan.; B.S. University of California at Davis, 1973; M.P.H. University of California at Los Angeles, 1976. Epidemiology.

A Case-Control Study of the Risk Factors for Cervicitis During Pregnancy.

Ann Patricia Riley, of Columbus, Ohio; B.A. Ohio State University, 1981. Population Dynamics.

Malnutrition, Age at Menarche and Adolescent Growth in Rural Bangladeshi Girls.

James Stoll, of Alamogordo, N.M.; B.S. New Mexico State University, 1980. Biochemistry.

Isolation and Characterizations of CHO Glycosylation Mutants.

Michael Kerry Stoskopf, of Baltimore, Md.; B.S. Colorado State University, 1973; D.V.M., 1975. Environmental Health Sciences.

Characterization of a Novel Glycolipid from the Giant Cockroach, Blaberus Colosseus.

Martha Teitelbaum, of Silver Spring, Md.; B.A. University of Missouri at St. Louis, 1971; M.P.H. Yale University School of Medicine, 1976. Behavorial Sciences and Health Education.

The Effect of Family Roles and Responsibilities on the Work Patterns of Young Males and Female Obstetrician-Gynecologists.

Terry Lynn Duel Thomas, of Silver Spring, Md.; B.A. University of Colorado, 1970; M.S. Georgetown University, 1977. Environmental Health Sciences.

A Retrospective Study of Brain Tumors and Occupational Risk Factors.

David Carl Thompson, of Columbia, Md.; B.S. Wheaton College, 1975; M.S. University of Minnesota, 1979. Environmental Health Sciences.

The Peroxidative Activation of Butylated Hydroxyanisole and Butylated Hydroxytoluene.

Bruce Jeffrey Trock, of Detroit, Mich.; B.S. University of Michigan, 1974; B.S. Michigan State University, 1976; M.P.H. University of Michigan School of Public Health, 1979. Epidemiology.

A Mathematical Carcinogenesis Model for Predicting the Effects of Retinoid Chemoprevention.

Stephen J. Walker, of Joppatowne, Md.; B.S. Northeastern University, 1973; M.S., 1975. Environmental Health Sciences.

The Growth of Biological Films on Reverse Osmosis Membranes.

Luanne Judith Wolfgram, of Sheboygan, Wis.; B.S. University of Wisconsin at La Crosse, 1978. Immunology and Infectious Diseases.

Variations in the Susceptibility to Coxsackievirus B3-Induced Myocarditis Among Different Strains of Mice.

Stacieann C. Yuhasz, of Hellertown, Pa.; B.S. Southampton College of Long Island University, 1980. Biophysics.

A Thermodynamic Evaluation of the Recognition Forces Between Monoclonal Antibodies and Their Antigens.

DOCTORS OF PHILOSOPHY

in The School of Advanced International Studies

John J. Davidson, of Arlington, Va.; B.A. Yale University, 1978; M.A. The Johns Hopkins University, S.A.I.S., 1987.

Soviet Perceptions of American Foreign Policy and the Decline of Detente.

David Dessler, of Houston, Texas; B.S., B.A. Oklahoma University, 1978; M.A. The Johns Hopkins University, 1980.

Structural Origins of Major War.

Farid E. El Khazen, of Naccache, Lebanon; B.S. Southwest Missouri State University, 1980; M.A. The Johns Hopkins University, 1983.

The Disintegration of the Lebanese Confessional System: 1967-1976.

Daniel Goure, of Washington, D.C.; B.A. Pomona College, 1975; M.A. The Johns Hopkins University, 1977.

Capabilities and Intentions: Soviet Perceptions of U.S. Strategic Policy, 1945-1980.

William Mark Habeeb, of Arlington, Va.; B.A. Georgetown University, 1978; M.A. The Johns Hopkins University, 1983.

Power and Tactics in Asymetrical Negotiations.

Gerald E. Lamps, of Manassas, Va.; B.A. American University, 1965; M.A. The Johns Hopkins University, 1971.

Ibn al-Muqaffa: Political and Legal Theorist and Reformer.

Andrew A. Michta, of Arlington, Va.; B.A. St. Mary's College, 1980; M.A. Michigan State University, 1982.

The Polish Military as a Political Source: The Army During the Crisis of 1980-1981.

Elise Forbes Pachter, of Washington, D.C.; B.A. Radcliffe College, 1965; M.A.T. Columbia Teachers College, 1969.

Our Man in Kinshasa: U.S. Relations with Mobutu, 1970-1983 Patron Client Relations in the International Sphere.

Ilya Prizel, of Washington, D.C.; B.A. Brooklyn College, 1973; M.S.W. University of Maryland, 1977; M.A. The Johns Hopkins University, 1981.

The Evolution of Soviet Perceptions of Latin America During the Brezhnev Era, 1964-1982.

Stephen D. Wrage, of Washington, D.C.; B.A. Amherst College, 1974; M.A. The Johns Hopkins University, 1982.

Human Rights and the American National Myth.

DOCTORS OF MEDICINE

in The School of Medicine

Keith Russell Ablow, of Marblehead, Mass.; B.S. Brown University, 1983.

Joe Alexander, Jr., of Smiths, Ala.; B.S. Auburn University, 1979.

Ellen Cecilia Andersen, of Oak Park, Ill.; B.A. Swarthmore College, 1983.

Robert Logan Avery, of Birmingham, Ala.; B.A. Rice University, 1982.

Philip Albert Azordegan, of Jackson, Miss.; B.A. University of Mississippi, 1982; M.S. Millsaps College, 1983.

James Richard Barrett, of Caldwell, Kan.; B.A. University of Kansas, 1983.

Lucinda Bateman, of Provo, Utah; B.S. Brigham Young University, 1980; M.S., 1983.

Howard Bruce Baum, of Fort Worth, Texas; B.A. University of Texas at Austin, 1983.

Marie Bellantoni, of Havre de Grace, Md.; B.A. Harvard College, 1983.

Wendie Anderson Berg, of Baltimore, Md.; B.S., M.S. Stanford University, 1981.

Rohit Krishan Lal Bhatnagar, of Gaithersburg, Md.; B.A. The Johns Hopkins University, 1983.

Charles Thomas Bingham, III, of Lyndhurst, Ohio; B.S. Denison University, 1983.

George Theodore Boozalis, of Lake Jackson, Texas; B.S. Texas A & M University, 1983.

Raymond Neill Borland, of North Palm Beach, Fla.; B.A. Emory University, 1983.

Philip Andrew Branton, of Washington, Pa.; B.A. Washington and Jefferson College, 1983.

Arnold DeWitt Bullock, of Capitol Heights, Md.; B.S. Xavier University of Louisiana, 1983.

Daniel Burkhoff, of Baltimore, Md.; B.S. Cornell University, 1979; Ph.D. The Johns Hopkins University, 1986.

James Hubert Carson, of Waynesboro, Pa.; B.S. Dickinson College, 1983.

Pamela Louise Caslowitz, of Waban, Mass.; B.A. Brown University, 1983.

Jefferson William Chen, of South Pasadena, Calif.; B.S., M.S. California Institute of Technology, 1981.

Steven Chin, of Wantagh, N.Y.; B.S. California Institute of Technology, 1983.

Michael James Choi, of Bethesda, Md.; B.A. Yale University, 1983.

Carolyn Cidis, of Plainview, N.Y.; B.S. Cornell University, 1983.

Laura Jean Collins, of Millis, Mass.; B.A. Wellesley College, 1983.

Richard L. Converse, Jr.; of Twin Falls, Idaho; B.A. The Johns Hopkins University, 1984.

Lynda Marie Cristiano, of Redford, Mich.; B.S. University of Michigan at Ann Arbor, 1978.

Daniel Dean Dietrick, of Adelphi, Md.; B.S. University of Maryland at College Park, 1983.

Laura Grant Millman Dillard, of Kensington, Calif.; B.A. The Johns Hopkins University, 1984.

Todd Walther Dillard, Jr., of Columbia, Md.; B.A. The Johns Hopkins University, 1984.

Clem Melton Doxey, III, of Marietta, Ga.; B.S. University of Georgia, 1983.

D'Ann Elizabeth Duesterhoeft, of Austin, Texas; B.S. University of Texas at Austin, 1983.

Christopher Paul Duggan, of Worcester, Mass.; B.A. Dartmouth College, 1983.

Katulle Koco Eaton, of Lanham, Md.; B.A. Columbia University, 1983.

Catherine Anne Fedako, of Allison Park, Pa.; B.A. Lafayette College, 1983.

Lance Joseph Ferrin, of Bend, Ore.; B.S. Stanford University, 1979.

Jonathan Marc Fishbein, of Lutherville, Md.; B.A. Lafayette College, 1983.

Mark William Geraci, of Cincinnati, Ohio; B.A. University of Colorado, 1983.

Kenneth Anthony Giuffre, of Franklin Lakes, N.J.; B.S. Georgetown University, 1982.

David Stuart Glaser, of Longmeadow, Mass.; B.A. Wesleyan University, 1983.

Alan Jay Gordon, of Glencoe, Ill.; B.S. University of Michigan at Ann Arbor, 1983.

Matthew Frederick Gornet, of St. Louis, Mo.; B.A. Washington University of St. Louis, 1983.

Lisa Marie Halvorson, of Wayland, Mass.; B.A. Vassar College, 1982.

Andy Hay, of New York, N.Y.; B.A. Princeton University, 1982.

James Earl Hildreth, of Camden, Ariz.; B.A. Harvard College, 1979; Ph.D. University of Oxford, 1982.

Earl Joseph Hope, of Columbus, N.J.; B.S. Ursinus College, 1983.

Jane Carolyn Hoyt, of St. Paul, Minn.; B.A. Carleton College, 1983.

Scott Matthew Jaeger, of Syosset, N.Y.; B.S. Duke University, 1982.

Kevin Brian Johnson, of Pikesville, Md.; B.S. Dickinson College, 1983.

Donald Vincent Jones, of Los Angeles, Calif.; B.A. University of California at Berkeley, 1983.

Ethnie Small Jones, of Olney, Md.; B.A. The Johns Hopkins University, 1983.

Jacqueline Marie Junkins, of Coralville, Iowa; B.A. University of Notre Dame, 1983.

Ian Howard Kaden, of Old Bethpage, N.Y.; B.A. The Johns Hopkins University, 1984.

Abraham Kader, of San Jose, Costa Rica; B.A. Brandeis University, 1983.

David Joe Kliewer, of Vienna, Va.; B.A., B.S. Bethel College, Kansas, 1983.

Jordan Alexander Kreidberg, of Newton, Mass.; B.S. Massachusetts Institute of Technology, 1979.

Douglas Maynard Lakin, of Paradise Valley, Ariz.; B.A. Arizona State University, 1983.

Thomas Nils Ljungman, of Macungie, Pa.; B.S. Pennsylvania State University, 1983.

Jeanne M. Lukanich, of Chicago, Ill.; B.A. Ripon College, 1983.

Kathleen Marie Maletic, of Adelphi, Md.; B.S. University of Maryland at College Park, 1983.

Joel Winthrop Malin, of Tappan, N.Y.; B.S. Cornell University, 1983.

Maria Aristotle Markakis, of Fairview Park, Ohio; B.A. Bryn Mawr College, 1983.

Carol Jean Martin, of Huntingdon Valley, Pa.; B.A. Cornell University, 1983.

Wendy L. Matis, of Ogden, Utah; B.A. University of Utah, 1982.

Melanie Denise Maughlin, of Great Mills, Md.; B.A. The Johns Hopkins University, 1984.

Terri Denise McFadden, of North Augusta, S.C.; B.S. Spelman College, 1981.

Anne Marie McKenzie, of Silver Spring, Md.; B.A. University of Virginia, 1983.

Francis Joseph McMahon, of Nutley, N.J.; B.A. University of Pennsylvania, 1982.

Jeffrey Ira Miller, of Philadelphia, Pa.; B.A. The Johns Hopkins University, 1984.

Anne Brawner Namnoum, of Atlanta, Ga.; B.A. Williams College, 1982.

James Daniel Namnoum, of Newington, Conn.; B.A. Williams College, 1981.

William George Nelson, V, of St. Louis, Mo.; B.A. Yale University, 1980.

Daniel Florian Neuzil, of Sedro Woolley, Wash.; B.S. University of Washington, 1983.

Phuong L. Nguyen, of Beaverton, Ore.; B.A. University of Chicago, 1983.

James John Nocton, of Norristown, Pa.; B.S. University of Rochester, 1983.

Stephen Joseph Noga, of York, Pa.; B.S. University of Florida, 1976; Ph.D., 1983.

Maryland Pao, of Bethesda, Md.; B.A. The Johns Hopkins University, 1984.

Bert Melville Petersen, Jr.; of St. Thomas, Virgin Islands; B.A. The Johns Hopkins University, 1983.

Frantz Pierre-Jerome, of Zion, Ill.; B.S. University of Illinois at Urbana, 1982.

Gregory Lynn Plock, of Burwell, Neb.; B.A. Hastings College, 1983.

Bonnie Joan Pollack, of Jericho, N.Y. B.S. Cornell University, 1983.

Leland Duer Powell, of West Friendship, Md.; B.A. Harvard College, 1979.

Lourdes Rosa Prieto, of Little Ferry, N.J.; B.A. Barnard College, 1983.

Jack A. Ragheb, of Bloomfield Hills, Mich.; B.A. The Johns Hopkins University, 1978.

Valerie Sue Ratts, of Ballwin, Mo.; B.S. University of Illinois at Urbana, 1983.

Adelaide Sherwood Robb, of East Aurora, N.Y.; B.A. Smith College, 1983.

Terence Jay Roberts, of Little Rock, Ariz.; B.A. The Johns Hopkins University, 1984.

Bradley Charles Robertson, of Baltimore, Md.; B.S. Emory and Henry College, 1975; D.D.S. University of Maryland School of Dentistry, 1980.

Peter John Romano, II, of Holland, Mich.; B.A. Kalamazoo College, 1983.

Carolyn Mary Scerbo, of Franklin Lakes, N.J.; B.A. Smith College, 1983.

Pamela Whitney Schaefer, of Barrington, R.I.; B.A. Princeton University, 1982.

Korina Shulemovich, of New York, N.Y.; B.A. Barnard College, 1983.

Brett Andrew Simon, of Oceanside, N.Y.; B.A. Harvard College, 1979.

Roger Dean Smalligan, of Belleville, Ill.; B.S. Oral Roberts University, 1983.

Thomas Edward Stauch, of Bel Air, Md.; B.A. Franklin and Marshall College, 1983.

Scott Alan Stenquist, of Logan, Utah; B.A. The Johns Hopkins University, 1984.

S. Adam Strickberger, of Morrisville, Pa.; B.S. Pennsylvania State University, 1983.

Karen Ruth Swedeen, of Michigan City, Ind.; B.S. Purdue University, 1983.

Roy Barry Tishler, of Bardonia, N.Y.; B.A. Harvard College, 1979.

Angel Eduardo Torano, of Silver Spring, Md.; B.A. The Johns Hopkins University, 1983.

Mary Margaret Torchia, of Toledo, Ohio; B.S. University of Notre Dame, 1982.

Clifford Boehe Tribus, of Roseland, N.J.; B.S. Davidson College, 1983.

Peter Chien-Hua Tseng, of Silver Spring, Md.; B.A. Amherst College, 1980.

Susan Mary Vitalis, of Billings, Mont.; B.A. Concordia College, 1983.

Dennis Michael Walling, of Rockville, Md.; B.S. College of William and Mary, 1983.

Daryl Eugene Warder, of Kansas City, Mo.; B.S. Yale University, 1981.

Rebecca Gray Wells, of Amherst, N.Y.; B.S. Yale University, 1983.

Robert Carroll Whitaker, of Chevy Chase, Md.; B.A. Williams College, 1983.

Gilbert Gomer Whitmer, Jr.; of Bethel Park, Pa.; B.A. The Johns Hopkins University, 1983.

Damion Edwin Wicker, of Northglenn, Colo.; B.S. Massachusetts Institute of Technology, 1983.

Randall Earl Williams, of Fox River Grove, Ill.; B.A. Wabash College, 1983.

Gregory Jonathan Wilson, of Anniston, Ala.; B.A. The Johns Hopkins University, 1982.

Lisa Toni Witlin, of Baltimore, Md.; B.A. The Johns Hopkins University, 1977; J.D. Duke University, 1980.

Edward Andrew Wolff, III, of Rome, N.Y.; B.A. American University, 1981.

Eugene Laurence Wu, of Bethpage, N.Y.; B.A. The Johns Hopkins University, 1984.

Benjamin Karl Yokel, of Bethesda, Md.; B.A. The Johns Hopkins University, 1983.

Carlton Joseph Young, of Philadelphia, Pa.; B.S. Villanova University, 1983.

David Tuckchow Yue, of Los Angeles, Calif.; B.A. Harvard College, 1979.

DOCTORS OF PHILOSOPHY

in The School of Medicine

Joe Alexander, Jr., of Smiths, Ala.; B.S. Auburn University, 1979. Biomedical Engineering.

The Instantaneous Pressure-Volume Relationship of the Impedance-Loaded Canine Left Atrium.

James D. Bangs, of Vineyard Haven, Mass.; B.S. Bates College, 1977. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

Biosynthesis of a Variant Surface Glycoprotein of Trypanosoma Brucei.

Wendie Anderson Berg, of Baltimore, Md.; B.S., M.S. Stanford University, 1981. Pharmacology and Molecular Sciences.

Radiolabeled Antibody in Tumor Imaging and Therapy: Iodine and the Radiometal Chelates.

Randy Dean Blakely, of Columbus, Ga,; B.S. Emory University, 1981. Neuroscience.

N-Acetyl-Aspartyl-Glutamate: The Elucidation of Specific Catabolic and Anatomic Pathways in the Rat CNS.

John Charles Carpin, of Glen Mills, Pa.; B.Ch.E., Villanova University, 1972. Biomedical Engineering.

Pulmonary Deposition of Fine Particles in Man While Breathing Gases of Different Kinematic Viscosity: A Means of Studying the Bulk Transport of Particles in the Lung.

Jefferson William Chen, of South Pasadena, Calif.; B.S., M.S. California Institute of Technology, 1981. Pharmacology and Molecular Sciences.

Lysosome Associated Membrane Proteins (LAMP's); Biochemistry, Cellular, and Molecular Biology.

Edward S. Chornoboy, of Linden, N.J.; B.E. Stevens Institute of Technology, 1977; M.S.E. The Johns Hopkins University, 1985. Biomedical Engineering.

Maximum Likelihood Techniques for the Identification of Neural Point Processes.

Valeria L. Culotta, of Elkridge, Md.; B.S, University of Maryland, 1979. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

The Transcriptionally Active State of Eukaryotic Ribosomal RNA Genes.

Lance Joseph Ferrin, of Bend, Ore.; B.S. Stanford University, 1979. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

Mechanistic Studies on DNA Polymerase I from Escherichia coli.

Alan Patrick Fields, of Falls Church, Va.; B.S. George Washington University, 1981. Pharmacology and Molecular Sciences.

Analysis of Two Major Polypeptide Components of the Nuclear Matrix.

Lisa Ingrid Hellstrom, of Severna Park, Md.; B. A. Western Maryland College, 1978. Biomedical Engineering.

Psychophysical and Physiological Representations of High-Pass and Low-Pass Noise in the Auditory System.

William Ralph Kirk, of Albuquerque, N.M.; B.A. Washington University, 1978. Biochemistry, Cellular and Molecular Biology Program—Biophysics.

A Lanthanide Nucleotide Complex as a Spectroscopic and Kenetic Probe of Phosphoryl Transfer.

Jordan Alexander Kreidberg, of Newton, Mass.; B.S. Massachusetts Institute of Technology, 1979. Biochemistry, Cellular and Molecular Biology Program—Molecular Biology and Genetics.

The Human Thymidine Kinase Gene: Structure and Growth Regulation.

William T. Lee, of Burlington, Conn.; B.A. George Washington University, 1980; M.F.S., 1982. Molecular Biology and Genetics—Immunology.

The Structural Characterization and the Regulation of the Murine B Lymphocyte IgE Receptor.

William G. Nelson, V, of Baltimore, Md.; B.A. Yale University, 1980. Pharmacology and Molecular Sciences.

The Role of DNA Topoisomerases in Normal and Abnormal Prostatic Growth.

Ralph Ewin Parchment, of Murfreesboro, Tenn.; B.S. Vanderbilt University, 1982. Pharmacology and Molecular Sciences.

Extracellular Matrix Molecules In Human Small Cell Lung Carcinoma In Vitro Spheroids.

Mark Frings Pittenger, of Havertown, Pa.; B.S. Worcester Polytechnic Institute, 1979. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

Autoregulation of Tubulin Synthesis: A Novel Cytoplasmic Mechanism Regulating Gene Expression.

David Alexander Potter, of Vancouver, British Columbia; B.S. Massachusetts Institute of Technology, 1978; M.D. The Johns Hopkins University, 1982. Biochemistry, Cellular and Molecular Biology Program—Molecular Biology and Genetics.

A Tissue Culture Model for Serum Amyloid A Gene Enclosures: Applications and Algorithms.

Leland Duer Powell, of West Friendship, Md.; B.A. Harvard College, 1979. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

Cell Surface Oligosaccharides of the Tumor Cell, AKTB-lb, and Lymphocyte Recognition in the Mixed Lymphocyte Reaction.

Ian Jeffery Reynolds, of London, England; B.Sc. Leeds University, 1982. Pharmacology and Molecular Sciences.

A Pharmacological Analysis of Calcium Antagonist Receptors.

Roberta Whiting Scherer, of Pasadena, Md.; B.A. Thiel College, 1967; M.S. George Washington University, 1970. Physiology.

Muscarinic Cholinergic and Alpha$_1$ Adrenergic Receptors in Murine Atria: Phosphatidylinositol Breakdown and Receptor Interaction.

Brett Andrew Simon, of Baltimore, Md.; Harvard College, 1979. Biomedical Engineering.

The Dynamic Distribution of Pulmonary Ventilation During High-Frequency Ventilation.

Kevin M. Walton, of Baltimore, Md.; B.A. Brandeis University, 1981. Pharmacology and Molecular Sciences.

The Regulation of Ganglioside Expression in Neuronal Cell Lines.

Liu Yang, of Hubei, People's Republic of China; B.S. Wuhan University, 1982. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

Studies of Mammalian DNA Topoisomerases.

David Tuckchow Yue, of Baltimore, Md.; B.A. Harvard College, 1979. Biomedical Engineering.

Interrelation Between Intracellular Calcium, Strength of Contraction, and Stimulus Interval in the Mammalian Heart.

Robert Zaczek, of Baltimore, Md.; B.S. Towson State University, 1974. Pharmacology and Molecular Sciences.

Characterization of a Novel Brain Specific Chloride Dependent Glutamic Acid Transport.

DOCTORS OF PHILOSOPHY

in The G.W.C. Whiting School of Engineering

Vicki Diane Aaronson, of Washington, D.C.; B.A. Washington University in St. Louis, 1979; M.A. The Johns Hopkins University, 1983. Geography and Environmental Engineering.

Maximal Covering Tree Problems.

Nathanael Adlai Almonte De Pano, of Manila, Philippines. Computer Science.

Polygon Approximation with Optimized Polygonal Enclosures: Applications and Algorithms.

Ashok Goel, of Kaithal, India; B.Sc., M.Sc. Punjab University, 1973. Electrical Engineering and Computer Science.

Modeling of Propagation Delays on Gallium Arsenide Based Very High Speed Integrated Circuits.

Martin Price Jones, II, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1981; M.S.E. The Johns Hopkins University, 1984. Materials Science and Engineering.

Ultrasonic Evaluation of Spray-Dried Alumina Powder During and After Compaction.

Kumarasamy Kandasamy, of Iuvil, Sri Lanka. Civil Engineering.

Three-Dimensional Dynamic Analysis of Gravity Dam and Reservoir Systems.

Mary Ann Kennedy, of Newton, Mass. Electrical and Computer Engineering.

A Structural Approach to a System Level Fault Model.

Ronald Ken Klimberg, of Washington, D.C. Geography and Environmental Engineering.

Inspectional Scheduling: A Two-Stage Decision Support System Using Multiple Objectives.

Debra Sara Knopman, of Philadelphia, Pa.; B.A. Wellesley College, 1975; M.S.C.E. Massachusetts Institute of Technology, 1978. Geography and Environmental Engineering.

Optimal Design of Sampling for Parameter Estimation and Discrimination Among One-Dimensional Models of Transient Solute Transport in Porous Media.

Jane Wishart Maclachlan, of Glasgow, Scotland. Materials Science and Engineering.

Contrast Mechanisms in Thermal Wave Imaging.

Avinash Madhukar Nafday, of Gadarwaren, India. Civil Engineering.

Extremum Methods of Structural Analysis for System Reliability Assessment.

Karen Lynn Payton, of Arlington, Mass. Electrical Engineering and Computer Science.

Vowel Processing by a Model of the Auditory Perphery.

Laurence Ralph Riddle, of Quakertown, Pa. Electrical and Computer Engineering.

Recursive Estimation for Distributed Parameter Systems.

Frederick Scatena, of Kentifield, Calif. Geography and Environmental Engineering.

Sediment Budgets and Delivery in a Suburban Watershed.

Giuseppe Elio Scavone, of Messina, Italy; B.A. The Johns Hopkins University, 1983; M.S.E. 1983. Geography and Environmental Engineering.

An Interactive Methodology for Computing and Displaying Large Sets of Solutions to Multiobjective Linear Programs.

John Christian Schmidt, of Orange, N.J. Geography and Environmental Engineering.

Geomorphology of Alluvial Sand Deposits, Colorado River, Grand Canyon National Park, Arizona.

Todd Arthur Schultz, of Camp Drew, Japan. Mathematical Sciences.

Mathematical Programming and Stochastic Games.

John Robert Scully, of Baltimore, Md. Materials Science and Engineering.

The Influence of Strain on Hydrogen Entry, Transport, and Embrittlement of a High Strength Steel in Sodium Chloride Solution.

Howard Shaun Sellers, of Decatur, Ala. Chemical Enginering.

I. Boundary Effects on the Drag of an Oscillating Sphere: Applications to the Magnetic Sphere Rheometer; II. Attenuation and Dispersion of Acoustic Waves in Nematic Liquid Crystals.

Rajendra Singh Solanki, of Budaun, India. Geography and Environmental Engineering.

Techniques for Approximating the Noninferior Set in Linear Multiobjective Programming Problems with Several Objectives.

Roland Willis Wentworth, of Winchendon, Mass. Geography and Environmental Engineering.

Some Implications of Dynamic Demand Functions for Public Utility Pricing and Regulatory Policy.

DOCTORS OF PHILOSOPHY

in The School of Arts and Sciences

Edward Thanaraj Asirvatham, of Sivakasi, India; B.Sc. Madurai University, India, 1975; M.Sc., 1977. Chemistry.

Part I: Asymmetric Synthesis of 1,5-Dicarbonyl Compounds Asymmetric Synthesis of Natural (–)-Methyl Jasmonate; Part II: Sequential Michael Induced Ring Closure for One-Pot, Multicomponent Annulation.

Luciano Bardi, of Florence, Italy; M.A. The Johns Hopkins University, 1978. Political Science.

Representation in the European Parliament.

Adrienne Joan Bell, of South Shields, England; B.A. University of California at Los Angeles, 1980; M.A. The Johns Hopkins University, 1983. History.

Calvert Colony: Proprietary Politics in Maryland, 1716-1763.

Lauren Ann Bention, of Baltimore, Md.; B.A. Radcliff College, 1978; M.A. The Johns Hopkins University, 1983 and 1984. Anthropology/History.

The Role of the Informal Sector in Economic Development: Industrial Restructuring in Spain.

Robert William Bernotas, of Plainfield, N.J.; B.A. Rutgers College, 1977; M.A. The Johns Hopkins University, 1981. Political Science.

Critical Theory, Jazz and Politics: A Critique of the Frankfurt School.

Charles Joseph Bieberich, of Baltimore, Md.; B.S. University of Tampa, 1982. Biology.

Expression and Function of a Heterologous MHC Class I Gene in Transgenic Mice.

William David Brobst, of Williamsport, Pa.; B.S.M.S. Catholic University of America, 1980. Chemistry.

Quantification of Intracavity Dye Laser Spectroscopy and Its Application to Chemical Kinetics.

Mary Margaret Brodnax, of Monroe, La.; B.A. Vanderbilt University, 1978; M.A. The Johns Hopkins University, 1980. German.

Ent-sagung: The Failure of Discourse as Narrative Theme and Narrational Problem in the Novel and Film.

Lana Fayrenne Cable, of Cheyenne, Wyo.; B.A. University of Wyoming, 1965; M.A. University of Denver, 1974; M.A. The Johns Hopkins University, 1977. English.

Carnal Rhetoric: Image and Truth in Milton's Polemics.

William Thomas Callahan, of Brooklyn, N.Y. B.A. State University of New York at Stoney Brook, 1974; M.A. The Johns Hopkins University, 1977. Political Science.

Presidential Support: Patterns, Correlates, and Dynamics, 1957-1972.

Mark Lawrence Campbell, of Sacramento, Calif.; B.S. Brigham Young University, 1978; M.S., 1980; M.A. The Johns Hopkins University, 1985. Chemistry.

Spin-Orbit Effects in Reactions of Metastable Alkaline Earth Metal Atoms with Simple Oxidants.

Elizabeth Bobrick Carter, of Nashville, Tenn.; B.A. Marlboro College, 1976; M.A. The Johns Hopkins University, 1982. Classics.

Actor, Author, and Audience in Aristophanes' Thesmophoriazusae.

W. Seth Carus, of LaSalle, Ill.; B.A. The Johns Hopkins University, 1976. Political Science.

The Assessment of Military Power.

Katharine Venable Cashman, of Providence, R.I.; B.A. Middlebury College, 1976. Earth and Planetary Sciences.

Crystal Size Distributions in Igneous and Metamorphic Rocks.

Joyce Elizabeth Chaplin, of Antioch, Calif.; B.A. Northwestern University, 1982; M.A. The Johns Hopkins University, 1984; History.

An Anxious Pursuit: Innovation in Commercial Agriculture in South Carolina, Georgia, and British East Florida, 1740-1815.

Robert John Christy, of Palo Alto, Calif. Biology.

Function of Murine Intracisternal A-Particle LTRs and Analysis of Proviral Cellular Flanking Regions.

Anthony Dominic Colantuono of Somerville, N.J.; B.A. Rutgers University, 1980; M.A. The Johns Hopkins University, 1981. History of Art.

The Tender Infant: Invenzione *and* Figura *in the Art of Poussin.*

David Ernst Dauer, of Evanston, Ill.; B.A. Northwestern University, 1972; M.A. The Johns Hopkins University, 1974. History.

The Hinterland Commercial System and the Port of Philadelphia: Business Development in Colonial America.

Charles Roy Dearolf, of Philadelphia, Pa.; B.A. The Johns Hopkins University, 1981. Biology.

A phenotypic and molecular analysis of the Drosophila awd *locus.*

Ingrid Christa Deckman, of York, Pa. Chemistry.

Characterization of a Specific Protein-RNA Complex Involved in Translational Regulation.

Peter John Diamond, of New York, N.Y.; B.A. Georgetown University, 1975; M.Sc. in Politics. London School of Economics and Political Science, 1976; M.A. The Johns Hopkins University, 1981. Political Science.

The Ideology of Improvement: Thomas Reid and the Scottish Enlightenment.

Francis Joseph Donoghue, of Lowell, Mass.; M.A. The Johns Hopkins University, 1983. English.

Author and Reviewer in the Later Eighteenth Century: The Role of Popular Criticism in the Careers of Sheridan, Sterne, Goldsmith and Smollett.

Hoang Dothe, of Saigon, Vietnam; B.A. Bridgewater College, Virginia, 1980; M.A. The Johns Hopkins University, 1986. Chemistry.

Orthogonal Scalar Operators for Mixed Atomic Configurations and Application to Term-Analysis Residues.

Larry Michael Ellis, of Chicago, Ill.; B.A. George Washington University, 1979; M.A. The Johns Hopkins University, 1982. History.

Army, State and Politics in the Grand Duchy of Baden, 1866-1920.

Barry Neil Falgout, of Jacksonville, Fla.; B.A., B.S. University of Delaware, 1977. Biology.

Particle Assembly and Protein Synthesis by Human Adenovirus: Studies Using Deletion Mutations Near the Right End of the Genome.

Charles Lincoln Folk, of Baltimore, Md.; B.A. Gettysburg College, 1981; M.A. The Johns Hopkins University, 1985. Psychology.

Preattentive Representation and Processing of Visual Feature Information.

Kate Langdon Forhan, of Cleveland, Ohio; B.A. University of California, 1971; M.A., 1972. Political Science.

The Twelfth Century "Bureaucrat" and the Life of the Mind: John of Salisbury's Policraticus.

Carl Baldwin Freidoff, of Pittsburgh, Pa.; B.S. University of Miami, 1981. Chemistry.

Photoelectron Spectroscopic Studies and Generation of Cluster Ions.

Valerie Ann Greaud, of Baton Rouge, La.; B.A. The Johns Hopkins University, 1980; M.A., 1980. Psychology.

Investigation of the Unidimensionality Assumption of Item Response Theory.

Erol Eliyau Gulcicek, of Istanbul, Turkey. Chemistry.

Electron Impact Excitation of Atomic Oxygen: Determination of Optical Oscillator Strengths and the Absolute Differential and Integral Cross Sections of Forbidden Transitions.

Masana Harada, of Osaka, Japan; B.S. Kyoto University, 1983; M.A. The Johns Hopkins University, 1985. Mathematics.

A Proof of the Reimann—Roch Theorem.

Mark Raymond Hardy, of Baltimore, Md.; B.A. The Johns Hopkins University, 1980. Biology.

Effect of Carbohydrate Structure on the Binding of Ligands to the Hepatic Galactose/N—Acetylgalactosamine Lectin of Mammalian Hepatocytes.

William Paul Hausdorf, of St. Paul, Minn.; B.A. Carleton College, 1980. Biology.

Modulation of Plasma Membrane Signal Transducing Proteins in the Adrenal Cortex by Angiotensin II and Other Regulators of Aldosterone Production.

Bruce William Hevly, of Seattle, Wash.; B.A. Carleton College, 1982. History of Science.

Basic Research Within a Military Context: The Naval Research Laboratory and the Foundations of Extreme Ultraviolet and X-Ray Astronomy, 1923-1960.

Juan Homero Hinojosa, of Nuevo Laredo, Mexico; B.S. Brown University, 1979; M.A. The Johns Hopkins University, 1983. Earth and Planetary Sciences.

On the State of Isostasy in the Central Pacific: Static and Dynamic Compensation Mechanisms.

Paul Jeffrey Hofer, of Dunkirk, N.Y.; B.A. University of Nebraska, Lincoln, 1979. Psychology.

Cognitive Strategies for Interpreting Law.

Eric Paul Hoffman, of Woodbury, N.J. Biology.

The Structure of the Promoters of the Drosophila *HSP 27 Gene.*

Amalia Fried Honick, of New York, N.Y.; M.A. The Johns Hopkins University, 1978. Political Science.

The National Security Adviser: Policy Change and Crisis Management.

Nicolas Scott Humphrey, of Boston, Mass.; B.S. Indiana University, 1976; M.A. The Johns Hopkins University, 1982. German.

Heinrich Heine and Friedrich Nietzsche: Dance as Metaphor and Rhetorical Imagery.

Suezo Ishizawa, of Iwaki Fukushima, Japan; M.A. Tohoku University, 1972; M.A. The Johns Hopkins University, 1982. Political Economy.

Increasing Returns, Public Inputs, and International Trade.

Marie Dolores Jackson, of Spokane, Wash.; B.A., B.S. University of California at Santa Cruz, 1976; M.A. The Johns Hopkins University, 1982. Earth and Planetary Sciences.

Deformation of Host Rocks During Growth of Igneous Domes, Southern Henry Mountains, Utah.

Paul David Jackson, of Seattle, Wash. Biology.

Tissue-Specific Gene Regulation and the Structural Differentiation of the Chicken Beta A-Globin Gene.

Kathryn Allamong Jacob, of Alexandria, Va.; B.A. Goucher College, 1972; M.A. Georgetown University, 1975; M.A. The Johns Hopkins University, 1979. History.

High Society in Washington During the Gilded Age: Three Distinct Aristocracies.

Michael Joseph Kadan, of Baltimore, Md.; B.S. Frostburg State College, 1982. Biology.

The Development of a High Specific Activity Radioligand ^{125}I-LSD, and its Application to the Study of Serotonin Receptors.

Susan Elizabeth Kane, of Tucson, Ariz.; B.S. Stanford University, 1979. Biology.

A study of the location and function of N^6-methyladenosine in Rous sarcoma virus genomic RNA.

Andrew Z. Katz, of Flushing, N.Y.; B.A. Brandeis University, 1980; M.A. The Johns Hopkins University, 1986. Political Science.

Public Opinion, Congress, President Nixon, and the Termination of the Vietnam War.

Lily Elvira Kay, of Krakow, Poland; B.A. New York University, 1969; M.A. The Johns Hopkins University, 1983. History of Science.

Cooperative Individualism and the Growth of Molecular Biology at the California Institute of Technology, 1928-1953.

James Mathias Kiefer, of Arlington, Va.; B.A. The Johns Hopkins University, 1971; M.B.A. Rutgers University, 1980; M.A. The Johns Hopkins University, 1981 and 1983. Political Economy.

The Static Welfare Costs of Tax Reform in a Small Open Economy: A Numerical General Equilibrium Analysis of Tariff Cuts in a Second-Best World When the Government is Constrained to Replace Lost Revenue.

Keekyung Kim, of Seoul, Korea; B.S. Yonsei University, 1981; M.A. The Johns Hopkins University, 1985. Chemistry.

Search for Stereoelectronic Factors in Carbene Rearrangements.

William Edward Klein, of St. Louis, Mo.; B.A. Amherst College, 1976; M.A. Washington University in St. Louis, 1981; M.A. The Johns Hopkins University, 1982. History.

Ruling Thoughts: the World of Sir Roger Owen of Condover.

Su-Hoon Lee, of Masan, South Korea; B.A. Busan National University, Korea, 1977; M.A. Busan National University, 1979; M.A. University of Alabama, 1982. Sociology.

State-building in the Periphery, 1960-1980.

Michael Lewin, of Johannesburg, South Africa; B.A. University of the Witwatersrand, South Africa, 1975. Political Economy.

The Monetary Approach to the Balance of Payments: The Case of South Africa.

Kenneth James Lipartito, of Vineland, N.J.; B.A. University of Delaware, 1980; M.A. The Johns Hopkins University, 1982. History.

The Telephone in the South: A Comparative Analysis, 1877-1920.

Xing-Qi Lu, of Suzhou, Jiangsu Province, China; M.A. The Johns Hopkins University, 1981. Physics and Astronomy.

Heavy Quark Jets From Electron-Positron Annihilation at 29 GeV.

Lee Harold Lueking, of Oxford, Neb.; B.A. Hastings College, 1979; M.A. The Johns Hopkins University, 1982. Physics and Astronomy.

A Long Baseline Search for Neutrino Flavor Oscillations.

Beatrice Berryman Marie, of Detroit, Mich.; B.A. Wayne State University, 1970; M.A. The Johns Hopkins University, 1982. Humanities Center.

Echoes of Revolution: Early Victorian Narrative and French Fictional Models.

James Robert Martino, of Waterbury, Conn.; B.S. Fairfield University, 1977; M.A. State University of New York at Albany, 1979. Mathematics.

Calculation of Extension on Groups of Certain Modules over the Steenrod Algebra.

Karen Joann Maschke, of Detroit, Mich.; B.A. Georgia State University, 1977; M.A., 1981. Political Science.

Federal Courts and Women Workers.

Richard Steven Mathis, of Smyrna, Tenn.; B.A. University of Tennessee, 1979; M.A. The Johns Hopkins University, 1982. Political Science.

Emancipation: A Study of two Theories.

Nancy Lois Maveety, of Belleville, N.J.; B.A. Arizona State University, 1982; M.A. The Johns Hopkins University, 1984. Political Science.

The Burger Court and Political Representation.

Wilfred Mark McClay, of Severna Park, Md.; B.A. St. John's College, 1974; M.A. The Johns Hopkins University, 1982. History.

A Haunted Legacy: The German Refugee Intellectuals and American Social Thought, 1932-1969.

Stuart Charles McConnell, of Stoughton, Wis.; B.A. University of Michigan, 1978; M.A. The Johns Hopkins University, 1983. History.

A Social History of the Grand Army of the Republic, 1867-1900.

Richard Arthur Morgan, of Marblehead, Mass.; B.A. Brandeis University, 1981. Biology.

Regulation of Intracisternal A Particle Gene Expression.

Peter Thomas Murphy, of Neenah, Wis. Humanities Center.

Popular Charms: Popularity and Its Influence on Some Romantic Literary Careers.

Philip Joseph Murphy, of Dublin, Ireland; B.A. University of Dublin, 1981; M.A. The Johns Hopkins University, 1983. Physics and Astronomy.

Multiple Inflation.

James Patrick Murray, of New London, Conn.; B.A. Amherst College, 1981. History.

Charity, Zeal, and Spiritual Authority in Britain, 1660-1700.

Jayant Narasimha Murthy, of Shillong, India; B.A. The Johns Hopkins University, 1981; M.A. 1983. Physics and Astronomy.

Hydrogen and Deuterium in the Local Intersteller Medium.

Robert Walter Myers, of Baltimore, Md.; B.A. The Johns Hopkins University, 1979. Biology.

Synthesis of "C-glycosides" and their potential application to affinity labeling of 0-glycosidases.

Walter Henry Nelson, of Buffalo, N.Y.; B.A. State University of New York at Buffalo, 1973. Political Science.

War and Politics in Revolutionary America: Military Policy and Political Change, 1775-1781.

Mark S. Neustadt, of Washington, D.C.; B.A. The University of Chicago, 1980. History of Science.

The Making of the Instauration: Science, Politics and Law in the Career of Francis Bacon.

Chau Trung Nguyen, of Thai Binh, Viet Nam; M.S. Millersville State College, 1981; M.A. The Johns Hopkins University, 1986. Earth and Planetary Sciences.

Depositional Facies Stratigraphy of the Lower Ordovician (Tremadocian) Platform Carbonates of the Central Appalachians.

Yign Noh, of Seoul, Korea; B.S. Seoul National University, 1980; M.S. 1982. Earth and Planetary Sciences.

Turbulent Mixing in a Rotating, Stratified Fluid.

Ward Frederick Joseph Odenwald, III, of Forest Hills, N.Y.; B.S. University of Maryland at College Park, 1973; M.S. 1977. Biology.

The Molecular Biology of the Murine Hox 1.3 Homeo Box Gene and its Encoded Protein.

Ted Michael Ownby, of Knoxville, Tenn.; B.A. Vanderbilt University, 1982; M.A. The Johns Hopkins University, 1984. History.

Evangelicalism and Male Culture: Recreation and Religion in the Rural South, 1865-1920.

Lilli-Ann Mary Parks, of Washington, D.C.; B.S. George Washington University, 1978. Biology.

The Organization and Expression of the Chorion Genes in Drosophila Melanogaster.

Tony Douglas Peterson, of Taber, Alberta, Canada; B.S. University of Calgary, 1983; M.A. The Johns Hopkins University, 1986. Earth and Planetary Sciences.

The Petrogenesis and Evolution of Nephelinite-Carbonatite Magmas.

Lisa Fraser Pratt, of Doylestown, Pa.; B.A. Mount Holyoke College, 1977. Biology.

A Survey of the alpha-tubulin Gene Family in Chicken by DNA Sequence Analysis and RNA Expression.

Joanna Matthes Pyper, of Greenfield, Mass.; B.A. Stanford University, 1970; B.A. University of California at Santa Barbara, 1979. Biology.

Caprine Arthritis-Encephalitis Virus: Characterization and Cloning of the Viral DNA and Studies of Nucleotide Sequence Homology with Visna Virus.

Jack A. Ragheb, of Cairo, Egypt; B.A. The Johns Hopkins University, 1978. Biology.

The Structure and Sequence of a Uridine Diphosphoglucose Pyrophosphorylase Gene of Dictyostelium discoideum. Implications for its Developmental Regulation of the Gene.

Ira Joseph Ropson, of Green Bay, Wis. Biology.
Biochemical Genetics of Fundulus heteroclitus *with Emphasis on the Hexose-6-Phosphate Dehydrogenase System.*

Gino M. Salituro, of Kenosha, Wis. Chemistry.
Biogenetically-Modelled Synthesis of the Nocardicins. Biosynthetic Investigations on Nocardicins.

Lawrence Francis Scanlon, of Syracuse, N.Y.; B.A. Brandeis University, 1977; M.A. The Johns Hopkins University, 1981; M.A. 1982. English.
Literal Authority: The Exemplum and Its Traditions in Middle English Literature.

Beryl Schlossman, of New York, N.Y.; B.A. Cornell University, 1976. French.
The Allegory of Conversion: Self Portraits and Fictions in Flaubert and Proust.

Jennifer Lippincott Schwartz, of Manhatten, Kan.; B.A. Swarthmore College, 1974; M.S. Stanford University, 1979. Biology.
Lysosomal Membrane Dynamics: Structure and Intracellular Pathway of a Lysosomal Membrane Protein.

Matthew Lewis Shapiro, of Teaneck, N.J.; B.A. Colby College, 1981; M.A. The Johns Hopkins University, 1983. Psychology.
Behavioral and electrophysiological sequelae of fetal basal forebrain grafts placed in the hippocampus of adult rats with fimbria-fornix lesions.

Jinn-Hwa Shyu, of Taichung, Taiwan; B.S. Taiwan Provincial College of Marine and Oceanic Technology, 1973; M.S. National Taiwan University, 1977. Earth and Planetary Sciences.
The Blockage of Surface Waves by Longer Waves and Currents.

Harvey Alan Singer, of Flushing, N.Y.; B.A. Queens College, 1978; M.A. The Johns Hopkins University, 1984. Earth and Planetary Sciences.
Heat Transport by Steady State Plumes with Strongly Temperature Dependent Viscosity.

Lisa Anne Skumatz, of Fort Bragg, N.C.; B.A. University of Wisconsin, 1975; M.A. The Johns Hopkins University, 1978. Political Economy.
Presidential Election Results as a Function of Economic Variables: Tests of Structural Change and Other Hypotheses.

Joseph Taylor Snodgrass, of Cleveland, Ohio; B.S. Case Western Reserve University, 1980; M.A. The Johns Hopkins University, 1986. Chemistry.
Spectroscopic Studies and Production of Cluster Ions.

Joan Frances Sokolovsky, of Brooklyn, N.Y.; B.A. Brooklyn College, 1969. Sociology.
Three Models of Peasant-State Interaction in the Collectivization of Agriculture in Eastern Europe: Poland and Hungary Compared.

Ronald George Sosnowski, of Newton, N.J.; B.S. Cornell University, 1974. Biology.
Genetics and Function in Transgenic Mice of a Chimeric Gene Derived from Drosophila Melanogaster Heat Shock Protein 70 and Human Growth Hormone.

Jeffrey Philip Spike, of Hamilton, Ohio.; B.A. Beloit College, 1975; M.A. University of Chicago, 1977. Philosophy.
Anomalous Monism and the Autonomy of Psychology.

Kendall Wayne Stiles, of Akron, Ohio.; B.A. Brigham Young University, 1982; M.A. 1983. Political Science.
Structure and Process of I.M.F. Decision-Making.

Mark Albert Suskin, of Chapel Hill, N.C.; M.A. The Johns Hopkins University, 1983. Physics and Astronomy.
Application of Group Theory to Some Problems in Atomic Physics.

Christopher Young Switzer, of Inglewood, Calif. Chemistry.
Part I. Enantiomerically Pure Cycloal Kenone Sulfoxides in Organic Synthesis and Part II. An Investigation of the Inversion-Electron Demand Diels-Alder Reaction of Some 1, 3-bis (Sulfonyl)-2-pyridones.

John Christopher Theibault, of Baltimore, Md.; B.A. University of California at Santa Cruz, 1979; M.A. The Johns Hopkins University, 1981. History.
Coping with the Thirty Years' War: Villages and Villagers in Hesse-Kassel, 1600-1680.

Roy Barry Tishler, of Bronx, N.Y.; B.A. Harvard College, 1979. Biophysics.
A Study of the Dynamic Properties of the Human Red Blood Cell Membrane Using Quasi-Elastic Light Scattering Spectroscopy.

Spyridon A. Vassilakis, of Athens, Greece; B.A. National University of Athens, 1982; M.A. The Johns Hopkins University, 1984. Political Economy.
Increasing Returns and Strategic Behavior.

Patricia Ann Watson, of Elkins, W.Va.; M.A. The Johns Hopkins University, 1986. History.
The Angelical Conjunction: The Preacher-Physicians of Colonial New England.

Mark Hill Waymack, of Richmond, Va.; B.A. College of William and Mary in Virginia, 1977; M.A. University of Exeter, England, 1978; M.A. The Johns Hopkins University, 1980. Philosophy.
Moral Philosophy and Newtonianism in the Scottish Enlightenment: A Study of the Moral Philosophies of Gershom Carmichael, Francis Hutcheson, David Hume and Adam Smith.

Elizabeth Ives Webb, of Coral Springs, Fla.; B.A. Florida Atlantic University, 1978; M.A. The Johns Hopkins University, 1982. Psychology.
Attribute Interactions: A Comparison of Processing Models.

Glenn Alan Wilson, of Baltimore, Md.; A.A. El Camino College, 1977; M.A. The Johns Hopkins University, 1985. Earth and Planetary Sciences.

Cassiterite Solubility and Metal Chloride Speciation in Supercritical Solutions.

Keith Alan Yagaloff, of New York, N.Y. Biology.

The Characterization, Solubilization and Partial Purification of Serotonin 5-HT1c Receptors.

An-Suei Yang, of Peng-Hu, Taiwan; B.S. National Tsing Hua University, Taiwan, 1979; M.A. The Johns Hopkins University, 1985. Chemistry.

EPR Studies of Phenylalanine Hydroxylase, Transferrin and Spin Labeled Phosphorylase b.

Xiangning Yang, of Nanjing, China; Certificate (Masters) Nanjing University, China, 1979. Earth and Planetary Sciences.

Evolutionary Stasis in Neogene Bivalve Lineages: A Morphometric Evaluation.

Tong-Lai Yu, of Hong Kong; B.Sc. Chinese University of Hong Kong, 1977; M.A. The Johns Hopkins University, 1981; M.S.E. 1982. Physics.

Spectroscopic Analysis of Low Z Impurities in the Tandem Mirror Experiment-Upgrade.

Rogerio Lucas Zandamela, of Inhambane, Mozambique; Laurea in Economics and Commerce Catholic University of the Sacred Heart, 1981; M.A. 1984; D.E.A. Paris-Sorbonne, 1982. Political Economy.

The Macroeconomic Implications of Wage Indexation in Closed and Open Economies.

Wei-Ming Zhang, of Shanghai, China; M.A. The Johns Hopkins University, 1981. Physics and Astronomy.

Measurement of Tau Branching Ratios.

The Johns Hopkins University • Homewood Campus • Baltimore, Maryland 21218

Office of The Registrar
75 Garland Hall

July 15, 1987

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1987 Commencement Program:

1. Bachelors of Arts (Arts and Sciences)

   Add: Leo L. Fong, of Calabasas, Calif.
   Coos Hamburger, of Owings Mills, Md.
   Brian W. Kanaga, of Colorado Springs, Colo.
   Maureen Christina Shea, of Oyster Bay Cove, N.Y.

   Delete: Harsimran Brara, Michael Corrigan, Ken Dietz, Joseph Diorio, Barry Ehrlich, Wendra Galfand, Elizabeth Guard, Mark Hermes, Vandana Kumra, Alexandra Marmion, Nancy Moeder, Sachi Morishige, Srikar Reddy, Rita Suri

2. Bachelors of Science in Biomedical Engineering (Engineering)

   Delete: Edward Joseph Coffey, Stefan Rene Schirber

3. Bachelors of Science in Electrical Engineering (Engineering)

   Delete: Munir Karim, David Keller, Joseph M. Kwiatkowski, Jr., Theophilus Nkone

4. Bachelors of Science in Materials Science and Engineering (Engineering)

   Delete: James Stephen Davis, Mark Aden Poling

5. Bachelors of Arts (Engineering)

   Add: Munir Ebrahim Karim, of Karachi, Pakistan.
   Joseph M. Kwiatkowski, of Wilmington, Del.
   Theophilus M. Nkone, of Baltimore, Md.
   Dave Shade, of Baltimore, Md.

   Delete: Nana Nkrumah, Mars Wu

6. Bachelors of Civil Engineering (Engineering)

   Delete: David Hugh Brown

7. Bachelors of Electrical Engineering (Engineering)

Add: Nicholas Basciano, of Crofton, Md.
Peter Andrew DiFonzo, of Taneytown, Md.
Michael P. Hall, of Baltimore, Md.

Delete: Kenneth E. Dworkin Toan Dinh Nguyen

8. Bachelors of Industrial Engineering (Engineering)

Add: Sally Beatrice Wilson, of York, Pa.

9. Bachelors of Mechanical Engineering (Engineering)

Add: David Hugh Brown, of Abingdon, Md.
John Lee Whitcher, of Baltimore, Md.

10. Performer's Certificate (Peabody)

Delete: Janine Irene Klaassen

11. Bachelors of Music (Peabody)

Delete: Clifton Darnell Slaughter

12. Associates of Science (Continuing Studies)

Add: Theodore Charles Weiler, of York, Pa.

Delete: Mark Bumgardner

13. Bachelors of Science (Continuing Studies)

Delete: Susan Klein Wright

14. Masters of Science (Continuing Studies)

Add: Patricia Lee Dorsett, of Baltimore, Md.; B.S. Quinnipiac College, 1978. Education.

Delete: Bruce Damasio Andrea Waldron
Beth Grimm Sheila Wolff
Joan Miller Melody Young
Carol Swersky

15. Masters of Liberal Arts (Continuing Studies)

Add: Catherine B. Doehler, of Omaha, Neb.; M.S. Loyola College, 1979.

Delete: John William Snow

16. Masters of Administrative Science (Continuing Studies)

Delete: Andrea Cecelia Greybush-Mangroo
Karen Colbert Jackson

Name Change: Cynthia B. Rasmussen (formerly Cynthia Louise Brundige)

17. Certificates of Advanced Study (Continuing Studies)

Delete: Thomas Dixon Murray

18. Masters of Music (Peabody)

Delete: Jonathan Leigh Parrish Bo Alexander Veistrup

19. Masters of Public Health (Hygiene and Public Health)

Delete: Harry Faulkner Connor

20. Masters of Arts (Advanced International Studies)

Add: Amjad Arbab, of Peshawar, Pakistan; B.A. Edwardes University, 1978; M.A. University of Peshawar, 1980.

Moia Tamber Gruber, of Fort Lee, N.J.; B.A. The Johns Hopkins University, 1983.

Miles Anthony Jacoby, of Casper, Wyo.; B.A. Brigham Young University, 1980.

21. Masters of Science (Engineering)

Add: Richard Douglas Silverstein, of East Brunswick, N.J.; B.A. The Johns Hopkins University, 1979. Computer Science.

David Laird Thayer, of Columbia, Md.; M.S. The Johns Hopkins University, 1978. Computer Science.

Delete: Thomas Robert Bailey Margot H. Osborne

22. Masters of Science in Engineering (Engineering)

Add: Tomas Jose Carroll, of Bel Air, Md.; B.E.S. The Johns Hopkins University, 1980. Electrical Engineering and Computer Science.

Delete: Eugene Saul Ilton David Swanson
Deborah Mechtel

23. Masters of Arts (Arts and Sciences)

Add: Eugene Saul Ilton, of New York, N.Y. Earth and Planetary Sciences.

Jack A. Ragheb, of Cairo, Egypt; B.A. The Johns Hopkins University, 1978. Biology.

Christopher Young Switzer, of Inglewood, Calif. Chemistry.

Delete: Imtiaz Ahmad
Ning Chia
Ingrid Deckman
Keekyung Kim

24. Doctors of Musical Arts (Peabody)

Delete: Blair Woodruff Pethel

25. Doctors of Science (Hygiene and Public Health)

Add: Mark Robert Farfel, of Baltimore, Md.; B.Sc. McGill University, 1979. Health Policy and Management.
Evaluation of Health and Environmental Effects of Two Methods for Residential Lead Paint Removal.

Wasileh Petro-Nustas, of Amman, Jordan; B.Sc. Jordan University, 1978; M.Sc. Boston University, 1982. Maternal and Child Health.
Women's Work and Infant Feeding Practices.

26. Doctors of Medicine (School of Medicine)

Add: Lorraine T. Peidle, of Macedonia, Ohio; B.A. Oberlin College, 1983.

27. Doctors of Philosophy (Arts and Sciences)

Delete: David Dauer